

melos

# Laykold<sup>®</sup> GUIDE

Installer Version



FOR TENNIS AND  
MULTISPORTS FACILITIES  
**ACRYLIC SPORTS  
SURFACES**

TENNIS  
BASKETBALL  
VOLLEYBALL  
FOOTBALL

OVER 100,000,000 m<sup>2</sup> OF LAYKOLD SPORTS SURFACES INSTALLED SINCE 1970!

# Laykold designed FOR ALL SPORTS



The Laykold acrylic system is an all-weather hard court coating that is both hard-wearing and durable. It can be easily adapted to meet a whole host of criteria in the areas of performance, playability and appearance. For instance, a specially made rubber cushion can be integrated into the system to improve the cushioning effect and, in turn, the comfort of play. The wide choice of colors allows you to add a creative splash to your asphalt or concrete surfaces whether old or new.

Thanks to the minimal maintenance requirements and low installation costs, you can reinvigorate existing concrete and asphalt surfaces, and extend the life of existing courts. The main application areas are tennis courts and multi-sports surfaces (for basketball, volleyball, football). Laykold is also a popular solution for roller sports or schools.

Laykold was first used in the 1920s until 1930s. Since then, this surface has been installed at more than 100,000 sports facilities throughout the world. During the tennis boom of the 1960s and 70s, Laykold became established as one of the few materials suitable for hard court surfaces. Thanks to the versatility that it offers today, Laykold has become the global market leader for outdoor tennis courts.

## THE RIGHT SYSTEM TO SUIT ANY REQUIREMENTS

	HARD COURT SYSTEMS			CUSHIONED SYSTEMS			
	LAYKOLD COLORCOAT	LAYKOLD ADVANTAGE	LAYKOLD MASTERS COLOR	LAYKOLD MASTERS 5	LAYKOLD MASTERS 5 GT	LAYKOLD MASTERS 8	LAYKOLD MASTERS GEL
UV-resistant colors	■	■	■	■	■	■	■
Slip-resistant	■	■	■	■	■	■	■
Durable, recoatable	■	■	■	■	■	■	■
Glare-free	■	■	■	■	■	■	■
Wide choice of colors	■	■	■	■	■	■	■
Water-impermeable	■	■	■	■	■	■	■
Resource conservation	■	■	■	■	■	■	■
Factory-textured Topcoat		■	■	■	■	■	■
High abrasion resistance			■	■	■	■	■
Cushioning				■	■	■	■
Developed for existing sub-floors with imperfections in the form of				■	■	■	■

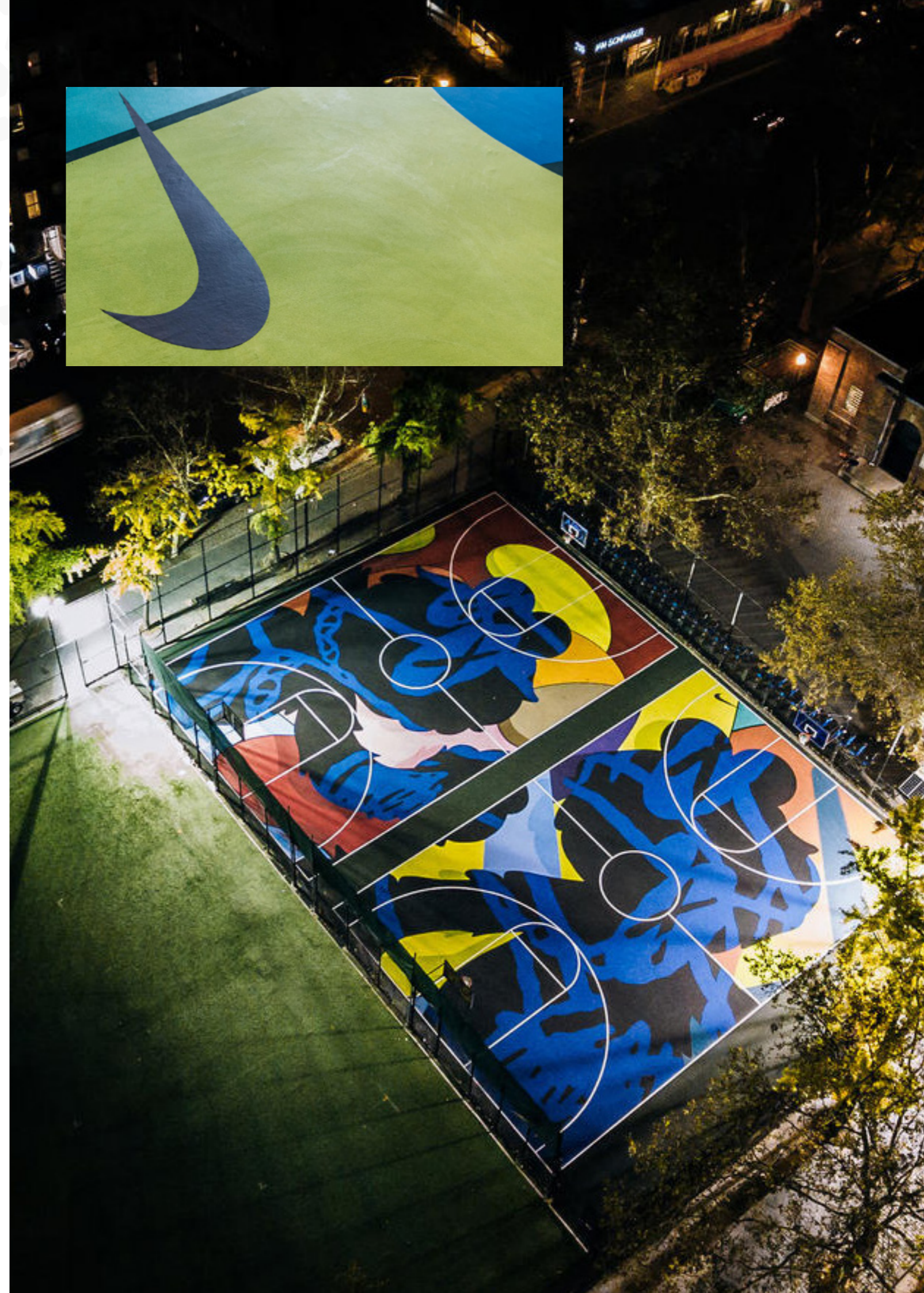


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**Nike Stanton Street  
Courts by KAWS**

**Andrew Jackson  
Elementary School,  
Santa Ana CA  
Soccer Court**



## Fed Cup Asheville

© Steve Atkins, Fox Cove Photography



## Club Mediterra Pickleball Courts



## Seed School, Washington DC Soccer Court





**Hard Rock Stadium**  
Miami, Florida



## MAKE YOUR **LAYKOLD** COURT UNIQUE!

Laykold tennis courts can now be individually designed with a logo and a selection of 17 standard colors. Fresh colors provide a unique playing feel and an integrated logo, e.g. from the club - makes the Laykold Court individual and unique.

Anything is possible - create it now!










# Laykold® ColorCoat

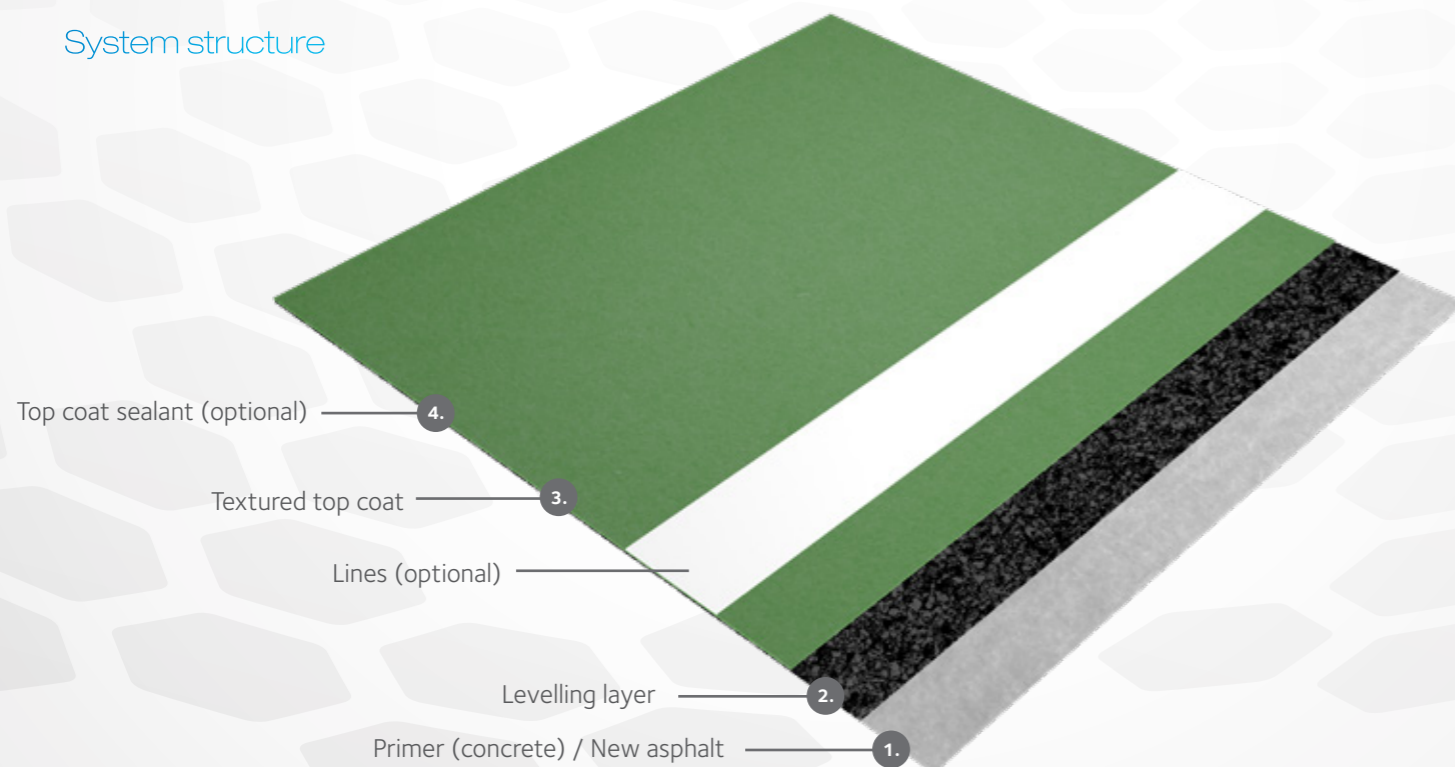
## Cost-effective, acrylic hard court coating system

The Laykold ColorCoat acrylic system is an all-weather hard court coating that is both hard-wearing and durable. Its main areas of application are tennis courts and multi-sports surfaces (for basketball, volleyball, football). The wide choice of colors allows you to add a creative splash to your asphalt or concrete surfaces whether old or new.

Laykold ColorCoat is laid seamlessly without any joints. With its textured and water-impermeable surface, it offers optimum sporting characteristics.

-  WIDE CHOICE OF COLORS
-  UV-RESISTANT COLORS
-  SLIP-RESISTANT
-  DURABLE
-  WATER-IMPERMEABLE
-  RESOURCE CONSERVATION
-  CERTIFIABLE

### System structure



### Design and coverage

Layer	Product	Coverage	Additional components required	Application method	Installation steps	
1.	Primer (concrete) or new asphalt	LM Concrete Primer LM FlexFill	None	Spraying	Step 1	
		0.25–0.35 kg/m <sup>2</sup>	Water: 5 to 1	Spread-coating	Step 1	
2.	Levelling layer	Acrylic Resurfacer undiluted	Water: 1 to 0.7 Sand: 1 to 1–1.5 kg	Spread-coating	2 steps	
3.	Textured top coat					
	For classification 2	ColorCoat Concentrate undiluted	0.29–0.40 kg/m <sup>2</sup> <sup>1</sup>	Water: 1 to 0.5 <sup>2</sup> Sand: 1 to 0.5–0.8 kg	Spread-coating	2 steps
	For classification 3	ColorCoat Concentrate undiluted	0.23–0.29 kg/m <sup>2</sup> <sup>1</sup>	Water: 1 to 0.5 <sup>2</sup> Sand: 1 to 0.5–0.8 kg	Spread-coating	2 steps
	For classification 4	ColorCoat Concentrate undiluted	0.23–0.29 kg/m <sup>2</sup> <sup>1</sup>	Water: 1 to 0.5 <sup>2</sup> Sand: 1 to 0.5–0.8 kg	Spread-coating	2 steps
4.	Top coat sealant For classification 4	ColorCoat Concentrate undiluted	Water: 1 to 1	Spread-coating	Step 1	

<sup>1</sup> Coverage per step // <sup>2</sup> The specified amount of water is assumed for an outside temperature of approx. 20°C. At higher temperatures, the water content can also be increased.

Sub-floor properties and condition	A water-impermeable asphalt or concrete base layer is recommended to serve as a suitable sub-floor. The existing surface must be cleaned thoroughly before the product is applied. It must also be undamaged, dry and free from oils and other adhesion inhibitors. Any flaking and peeling, holes and other forms of substrate damage must be repaired. Similarly, all unevenness must be levelled out before starting the surface treatment.
ITF classifications	Classified Court Pace, Category 2 – Medium-Slow Classified Court Pace, Category 3 – Medium Classified Court Pace, Category 4 – Medium-Fast
Test certificates	ITF

### System properties

PROPERTIES	STANDARD	RESULT
Thickness	DIN EN 1969	≥ 1 mm
Friction	DIN EN 13036-4	101 (dry) / 60 (wet)
Abrasion resistance	DIN EN ISO 5470-1	1.02 g
ITF coefficient of restitution	ITF CS 01 / 02	0.79
ITF coefficient of friction	ITF CS 01 / 02	0.68
ITF Court Pace Rating	ITF CS 01 / 02	35 (medium)

**SEE ALSO:**  
 Technical data sheets  
 Page 52–68  
 Sub-floor recommendation  
 Page 38–44



## Foundation

Bound asphalt/concrete base layer

**Please take note of the sub-floor recommendation on page 38.**

## Preparation

The sub-floor must be free of dust, loose material and soiling such as oil and grease. Cement-bound sub-floors are usually prepared by grinding or shot-blasting. The residual humidity of the sub-floor must not exceed 4%, required adhesive pull strength  $\geq 1 \text{ N/mm}^2$ . The temperature of the sub-floor must be at least  $3^\circ\text{C}$  above the dew point.

### Primer (concrete)

LM Concrete Primer is supplied ready to use in 2-component containers. All of component B must be poured into the container of component A while stirring. Both components must be mixed together slowly (at a speed of approx. 300 rpm) for 3 to 5 minutes. The mixture is then transferred to another clean bucket and mixed for another minute. The LM Concrete Primer is then applied using a lambskin roller, rubber squeegee or airless sprayer. Sanding the surface is recommended. The quantity applied is  $0.15 \text{ kg/m}^2$ . If the area is only small, the adhesive primer can also be applied using a short-pile paint roller.

The formation of puddles should be avoided. The curing time is between 4–6 hours depending on temperature and air humidity. There should be no more than 24 hours between application of the adhesive primer and further processing.

### Primer (new asphalt)

LM FlexFill must be homogenised prior to use. Water is then added in a mixing ratio of 5:1 and the resulting mixture is stirred slowly at a speed of 300–500 rpm for at least 2 minutes until a homogeneous result is achieved. After that, the LM FlexFill is applied with a flat rubber squeegee. The average coverage is around  $0.25\text{--}0.35 \text{ kg/m}^2$  (without additional components). There should be no more than 24 hours between application of the adhesive primer and further processing.

## Levelling layer

Acrylic Resurfacer must be homogenised prior to use. Water is then added in a mixing ratio of 1:0.7 and sand in a ratio of 1:1 up to 1:1.5. The resulting mixture is stirred slowly at a speed of 300–500 rpm for at least 2 minutes until a homogeneous result is achieved. The Acrylic Resurfacer is then applied evenly to the professionally prepared sub-floor with a flat rubber squeegee in 2 steps. The average coverage is around  $0.40 \text{ kg/m}^2$  (without additional components) but this can vary depending on how open-pored the sub-floor is, and also on the air humidity.

## Textured top coat

ColorCoat Concentrate must be homogenised prior to use. Water is then added in a mixing ratio of 1:0.5 and sand in a ratio of 1:0.5 up to 1:0.8. The resulting mixture is stirred slowly at a speed of 300–500 rpm for at least 2 minutes until a homogeneous result is achieved. The ColorCoat Concentrate is then applied evenly to the professionally prepared sub-floor with a flat rubber squeegee in 2 steps.

### ITF classification 2

The average coverage is around  $0.29\text{--}0.40 \text{ kg/m}^2$  (without additional components).

### ITF classification 3

The average coverage is around  $0.23\text{--}0.29 \text{ kg/m}^2$  (without additional components).

### ITF classification 4

The average coverage is around  $0.23\text{--}0.29 \text{ kg/m}^2$  (without additional components).

### Top coat sealant (for classification 4)

ColorCoat Concentrate must be homogenised prior to use. Water is then added in a mixing ratio of 1:1 and the resulting mixture is stirred slowly at a speed of 300–500 rpm for at least 2 minutes until a homogeneous result is achieved. After that, the ColorCoat Concentrate is applied with a flat rubber squeegee. The average coverage is around  $0.17\text{--}0.23 \text{ kg/m}^2$  (undiluted). Make sure that the wet-on-wet method is used to prevent initial drying at the edges.

## Quartz sand requirements

Quartz sand with a grading curve ranging from 0.18 mm up to a maximum of 0.25 mm. Mixture to comprise 50% round grain and 50% crushed grain sand.

## Lines

Line specifications for tennis courts or multi-sports facilities can be found in this brochure (see pages 36–37). Prior to applying the lines, these areas must be masked off carefully with masking tape. The pre-prepared top coat should be left to cure for at least 24 hours. We recommend using Laykold Line Primer to achieve optimal results. The product is applied using a narrow paint roller. The adhesive primer is ready for a further coat once it has dried clear. Depending on the color of the previous coating, Laykold Line Paint is applied in one to two coats using a narrow paint roller. The masking tape should then be removed immediately after application. A minimum waiting period of 24 hours must be observed before the surface is suitable for playing on.

# Laykold® Advantage

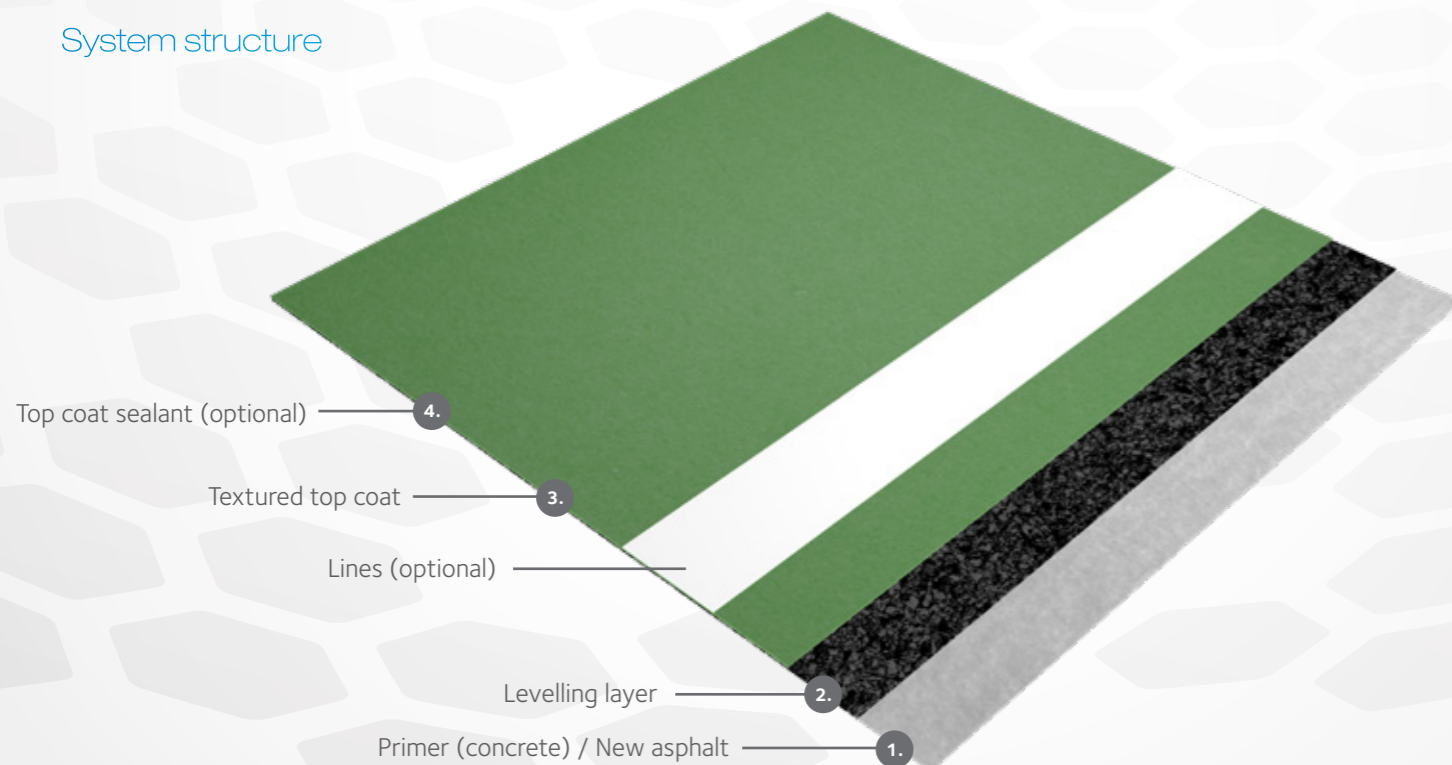
## Durable multi-sports surfaces with Laykold Advantage

The Laykold Advantage acrylic system is an all-weather hard court coating that is both hard-wearing and durable. Its main areas of application are tennis courts and multi-sports surfaces (for basketball, volleyball, football). Regardless of how and where it is installed, a consistent surface structure can be achieved thanks to the defined quartz sand prefilling. Laykold Advantage is available in several colors, allowing you to add a creative splash to your asphalt or concrete surfaces whether old or new.

Laykold Advantage is laid seamlessly without any joints. With its textured and water-impermeable surface, it offers optimum sporting characteristics.

-  WIDE CHOICE OF COLORS
-  UV-RESISTANT COLORS
-  SLIP-RESISTANT
-  DURABLE
-  WATER-IMPERMEABLE
-  FACTORY-TEXTURED TOPCOAT
-  RESOURCE CONSERVATION
-  CERTIFIABLE

### System structure



### Design and coverage

Layer	Product	Coverage	Additional components required	Application method	Installation steps	
1.	Primer (concrete) or new asphalt	LM Concrete Primer	None	Spraying	Step 1	
		LM FlexFill	Water: 5 to 1	Spread-coating	Step 1	
2.	Levelling layer	Acrylic Resurfacer undiluted	Water: 1 to 0.7 Sand: 1 to 1–1.5 kg	Spread-coating	2 steps	
3.	Textured top coat					
	For classification 2	Advantage undiluted	0.47–0.52 kg/m <sup>2</sup> <sup>1</sup>	Water: 5 to 1 <sup>2</sup>	Spread-coating	2 steps
	For classification 3	Advantage undiluted	0.41–0.47 kg/m <sup>2</sup> <sup>1</sup>	Water: 5 to 1 <sup>2</sup>	Spread-coating	2 steps
	For classification 4	Advantage undiluted	0.41–0.47 kg/m <sup>2</sup> <sup>1</sup>	Water: 5 to 1 <sup>2</sup>	Spread-coating	2 steps
4.	Top coat sealant For classification 4	ColorCoat Concentrate undiluted	Water: 1 to 1	Spread-coating	Step 1	

<sup>1</sup> Coverage per step // <sup>2</sup> The specified amount of water is assumed for an outside temperature of approx. 20°C. At higher temperatures, the water content can also be increased.

Sub-floor properties and condition	A water-impermeable asphalt or concrete base layer is recommended to serve as a suitable sub-floor. The existing surface must be cleaned thoroughly before the product is applied. It must also be undamaged, dry and free from oils and other adhesion inhibitors. Any flaking and peeling, holes and other forms of substrate damage must be repaired. Similarly, all unevenness must be levelled out before starting the surface treatment.
ITF classifications	Classified Court Pace, Category 2 – Medium-Slow Classified Court Pace, Category 3 – Medium Classified Court Pace, Category 4 – Medium-Fast
Test certificates	ITF

### System properties

PROPERTIES	STANDARD	RESULT
Thickness	DIN EN 1969	≥ 1 mm
Friction	DIN EN 13036-4	101 (dry) / 60 (wet)
Abrasion resistance	DIN EN ISO 5470-1	1.02 g
ITF coefficient of restitution	ITF CS 01 / 02	0.79
ITF coefficient of friction	ITF CS 01 / 02	0.68
ITF Court Pace Rating	ITF CS 01 / 02	35 (medium)

**SEE ALSO:**  
 Technical data sheets  
 Page 52–68  
 Sub-floor recommendation  
 Page 38–44





## Foundation

Bound asphalt/concrete base layer

**Please take note of the sub-floor recommendation on page 38.**

## Preparation

The sub-floor must be free of dust, loose material and soiling such as oil and grease. Cement-bound sub-floors are usually prepared by grinding or shot-blasting. The residual humidity of the sub-floor must not exceed 4%, required adhesive pull strength  $\geq 1 \text{ N/mm}^2$ . The temperature of the sub-floor must be at least  $3^\circ\text{C}$  above the dew point.

### Primer (concrete)

LM Concrete Primer is supplied ready to use in 2-component containers. All of component B must be poured into the container of component A while stirring. Both components must be mixed together slowly (at a speed of approx. 300 rpm) for 3 to 5 minutes. The mixture is then transferred to another clean bucket and mixed for another minute. The LM Concrete Primer is then applied using a lambskin roller, rubber squeegee or airless sprayer. Sanding the surface is recommended. The quantity applied is  $0.15 \text{ kg/m}^2$ . If the area is only small, the adhesive primer can also be applied using a short-pile paint roller.

The formation of puddles should be avoided. The curing time is between 4–6 hours depending on temperature and air humidity. There should be no more than 24 hours between application of the adhesive primer and further processing.

### Primer (new asphalt)

LM FlexFill must be homogenised prior to use. Water is then added in a mixing ratio of 5:1 and the resulting mixture is stirred slowly at a speed of 300–500 rpm for at least 2 minutes until a homogeneous result is achieved. After that, the LM FlexFill is applied with a flat rubber squeegee. The average coverage is around  $0.25\text{--}0.35 \text{ kg/m}^2$  (without additional components). There should be no more than 24 hours between application of the adhesive primer and further processing.

## Levelling layer

Acrylic Resurfacer must be homogenised prior to use. Water is then added in a mixing ratio of 1:0.7 and sand in a ratio of 1:1 up to 1:1.5. The resulting mixture is stirred slowly at a speed of 300–500 rpm for at least 2 minutes until a homogeneous result is achieved. The Acrylic Resurfacer is then applied evenly to the professionally prepared sub-floor with a flat rubber squeegee in 2 steps. The average coverage is around  $0.40 \text{ kg/m}^2$  (without additional components) but this can vary depending on how open-pored the sub-floor is, and also on the air humidity.

## Textured top coat

Laykold Advantage must be homogenised prior to use. Water is then added in a mixing ratio of 5:1 and the resulting mixture is stirred slowly at a speed of 300–500 rpm for at least 2 minutes until a homogeneous result is achieved. The Laykold Advantage is then applied evenly to the professionally prepared sub-floor with a flat rubber squeegee in 2 steps.

### ITF classification 2

The average coverage is around  $0.47\text{--}0.52 \text{ kg/m}^2$  (without additional components).

### ITF classification 3

The average coverage is around  $0.41\text{--}0.47 \text{ kg/m}^2$  (without additional components).

### ITF classification 4

The average coverage is around  $0.41\text{--}0.47 \text{ kg/m}^2$  (without additional components).

### Top coat sealant (for classification 4)

ColorCoat Concentrate must be homogenised prior to use. Water is then added in a mixing ratio of 1:1 and the resulting mixture is stirred slowly at a speed of 300–500 rpm for at least 2 minutes until a homogeneous result is achieved. After that, the ColorCoat Concentrate is applied with a flat rubber squeegee. The average coverage is around  $0.17\text{--}0.23 \text{ kg/m}^2$  (without additional components). Make sure that the wet-on-wet method is used to prevent initial drying at the edges.

## Lines




Line specifications for tennis courts or multi-sports facilities can be found in this brochure (see pages 36–37). Prior to applying the lines, these areas must be masked off carefully with masking tape. The pre-prepared top coat should be left to cure for at least 24 hours. We recommend using Laykold Line Primer to achieve optimal results. The product is applied using a narrow paint roller. The adhesive primer is ready for a further coat once it has dried clear. Depending on the color of the previous coating, Laykold Line Paint is applied in one to two coats using a narrow paint roller. The masking tape should then be removed immediately after application. A minimum waiting period of 24 hours must be observed before the surface is suitable for playing on.

# Laykold® Masters Color

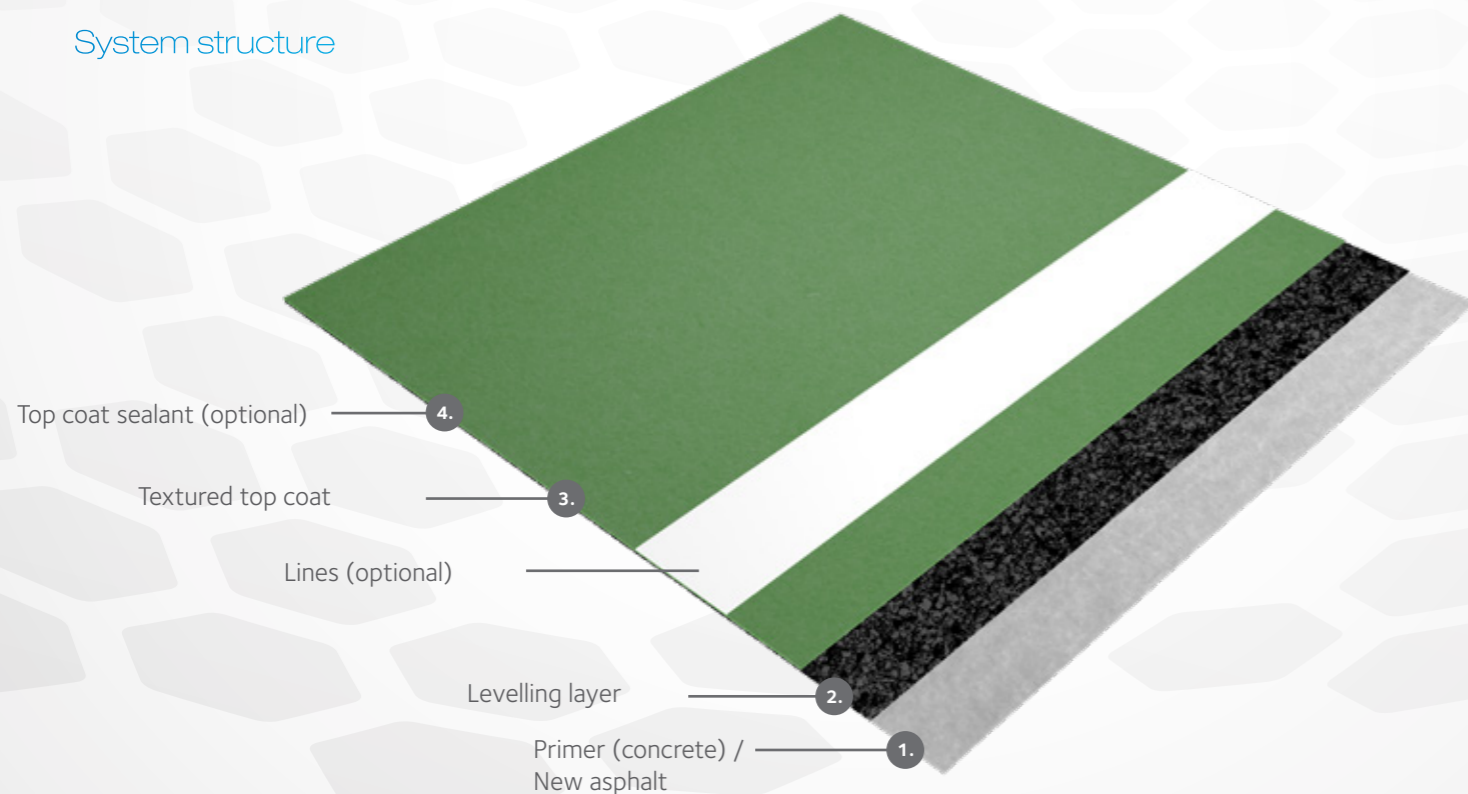
## High abrasion resistance with Laykold Masters Color

The Laykold Masters Color acrylic system is an all-weather hard court coating that is both hard-wearing and durable. Its main areas of application are tennis courts and multi-sports surfaces (for basketball, volleyball, etc.). One of the stand-out features of Laykold Masters Color is its high abrasion resistance. Regardless of how and where it is installed, a consistent surface structure can be achieved thanks to the defined quartz sand prefilling. Laykold Master Color is available in several colors, allowing you to add a creative splash to your asphalt or concrete surfaces whether old or new.

Laykold Masters Color is laid seamlessly without any joints. With its textured and water-impermeable surface, it offers optimum sporting characteristics.

-  WIDE CHOICE OF COLORS
-  UV-RESISTANT COLORS
-  SLIP-RESISTANT
-  DURABLE
-  LOW ABRASION
-  WATER-IMPERMEABLE
-  FACTORY-TEXTURED TOPCOAT
-  RESOURCE CONSERVATION
-  CERTIFIABLE

### System structure



### Design and coverage

Layer	Product	Coverage	Additional components required	Application method	Installation steps	
1.	Primer (concrete) or new asphalt	LM Concrete Primer	None	Spraying	Step 1	
		LM FlexFill	Water: 5 to 1	Spread-coating	Step 1	
2.	Levelling layer	LM Filler	Water: 5 to 1	Spread-coating	2 steps	
3.	Textured top coat					
	For classification 2	LM Topcoat undiluted	0.47–0.52 kg/m <sup>2</sup> <sup>1</sup>	Water: 5 to 1 <sup>2</sup>	Spread-coating	2 steps
	For classification 3	LM Topcoat undiluted	0.41–0.47 kg/m <sup>2</sup> <sup>1</sup>	Water: 5 to 1 <sup>2</sup>	Spread-coating	2 steps
	For classification 4	LM Topcoat undiluted	0.41–0.47 kg/m <sup>2</sup> <sup>1</sup>	Water: 5 to 1 <sup>2</sup>	Spread-coating	2 steps
4.	Top coat sealant For classification 4	LM Topcoat Finish undiluted	0.17–0.23 kg/m <sup>2</sup>	Water: 1 to 1	Spread-coating	Step 1

<sup>1</sup> Coverage per step // <sup>2</sup> The specified amount of water is assumed for an outside temperature of approx. 20°C. At higher temperatures, the water content can also be increased.

Sub-floor properties and condition	A water-impermeable asphalt or concrete base layer is recommended to serve as a suitable sub-floor. The existing surface must be cleaned thoroughly before the product is applied. It must also be undamaged, dry and free from oils and other adhesion inhibitors. Any flaking and peeling, holes and other forms of substrate damage must be repaired. Similarly, all unevenness must be levelled out before starting the surface treatment.
ITF classifications	Classified Court Pace, Category 2 – Medium-Slow Classified Court Pace, Category 3 – Medium Classified Court Pace, Category 4 – Medium-Fast
Test certificates	ITF

### System properties

PROPERTIES	STANDARD	RESULT
Thickness	DIN EN 1969	≥ 1 mm
Friction	DIN EN 13036-4	99 (dry) / 60 (wet)
Abrasion resistance	DIN EN ISO 5470-1	0.50 g
ITF coefficient of restitution	ITF CS 01 / 02	0.79
ITF coefficient of friction	ITF CS 01 / 02	0.68
ITF Court Pace Rating	ITF CS 01 / 02	35 (medium)

**SEE ALSO:**  
 Technical data sheets  
 Page 52–68  
 Sub-floor recommendation  
 Page 38–44



## Foundation

Bound asphalt/concrete base layer

**Please take note of the sub-floor recommendation on page 38.**

## Preparation

The sub-floor must be free of dust, loose material and soiling such as oil and grease. Cement-bound sub-floors are usually prepared by grinding or shot-blasting. The residual humidity of the sub-floor must not exceed 4%, required adhesive pull strength  $\geq 1\text{N/mm}^2$ . The temperature of the sub-floor must be at least  $3^\circ\text{C}$  above the dew point.

### Primer (concrete)

LM Concrete Primer is supplied ready to use in 2-component containers. All of component B must be poured into the container of component A while stirring. Both components must be mixed together slowly (at a speed of approx. 300 rpm) for 3 to 5 minutes. The mixture is then transferred to another clean bucket and mixed for another minute. The LM Concrete Primer is then applied using a lambskin roller, rubber squeegee or airless sprayer. Sanding the surface is recommended. The quantity applied is  $0.15\text{ kg/m}^2$ . If the area is only small, the adhesive primer can also be applied using a short-pile paint roller.

The formation of puddles should be avoided. The curing time is between 4–6 hours depending on temperature and air humidity. There should be no more than 24 hours between application of the adhesive primer and further processing.

### Primer (new asphalt)

LM FlexFill must be homogenised prior to use. Water is then added in a mixing ratio of 5:1 and the resulting mixture is stirred slowly at a speed of 300–500 rpm for at least 2 minutes until a homogeneous result is achieved. After that, the LM FlexFill is applied with a flat rubber squeegee. The average coverage is around  $0.25\text{--}0.35\text{ kg/m}^2$  (without additional components). There should be no more than 24 hours between application of the adhesive primer and further processing.

## Levelling layer

LM Filler must be homogenised prior to use. Water is then added in a mixing ratio of 5:1 and the resulting mixture is stirred slowly at a speed of 300–500 rpm for at least 2 minutes until a homogeneous result is achieved. The LM Filler is then applied evenly to the professionally prepared sub-floor with a flat rubber squeegee. The average coverage is around  $0.30\text{ kg/m}^2$  (without additional components) per working step but this can vary depending on how open-pored the sub-floor is, and also on the air humidity.

## Textured top coat

LM Topcoat must be homogenised prior to use. Water is then added in a mixing ratio of 5:1 and the resulting mixture is stirred slowly at a speed of 300–500 rpm for at least 2 minutes until a homogeneous result is achieved. The LM Topcoat is then applied evenly to the professionally prepared sub-floor with a flat rubber squeegee in 2 steps.

### ITF classification 2

The average coverage is around  $0.47\text{--}0.52\text{ kg/m}^2$  (without additional components).

### ITF classification 3

The average coverage is around  $0.41\text{--}0.47\text{ kg/m}^2$  (without additional components).

The second step is carried out by applying the product with a flat rubber squeegee and smoothing it with a broom to ensure an even finish.

### ITF classification 4

The average coverage is around  $0.41\text{--}0.47\text{ kg/m}^2$  (without additional components).

The second step is carried out by applying the product with a flat rubber squeegee and smoothing it with a broom to ensure an even finish.

### Top coat sealant (for classification 4)

LM Topcoat Finish must be homogenised prior to use. Water is then added in a mixing ratio of 1:1 and the resulting mixture is stirred slowly at a speed of 300–500 rpm for at least 2 minutes until a homogeneous result is achieved. After that, the LM Topcoat Finish is applied with a flat rubber squeegee. The average coverage is around  $0.17\text{--}0.23\text{ kg/m}^2$  (without additional components). Make sure that the wet-on-wet method is used to prevent initial drying at the edges.

## Lines

Line specifications for tennis courts or multi-sports facilities can be found in this brochure (see pages 36–37). Prior to applying the lines, these areas must be masked off carefully with masking tape. The pre-prepared top coat should be left to cure for at least 24 hours. We recommend using Laykold Line Primer to achieve optimal results. The product is applied using a narrow paint roller. The adhesive primer is ready for a further coat once it has dried clear. Depending on the color of the previous coating, Laykold Line Paint is applied in one to two coats using a narrow paint roller. The masking tape should then be removed immediately after application. A minimum waiting period of 24 hours must be observed before the surface is suitable for playing on.

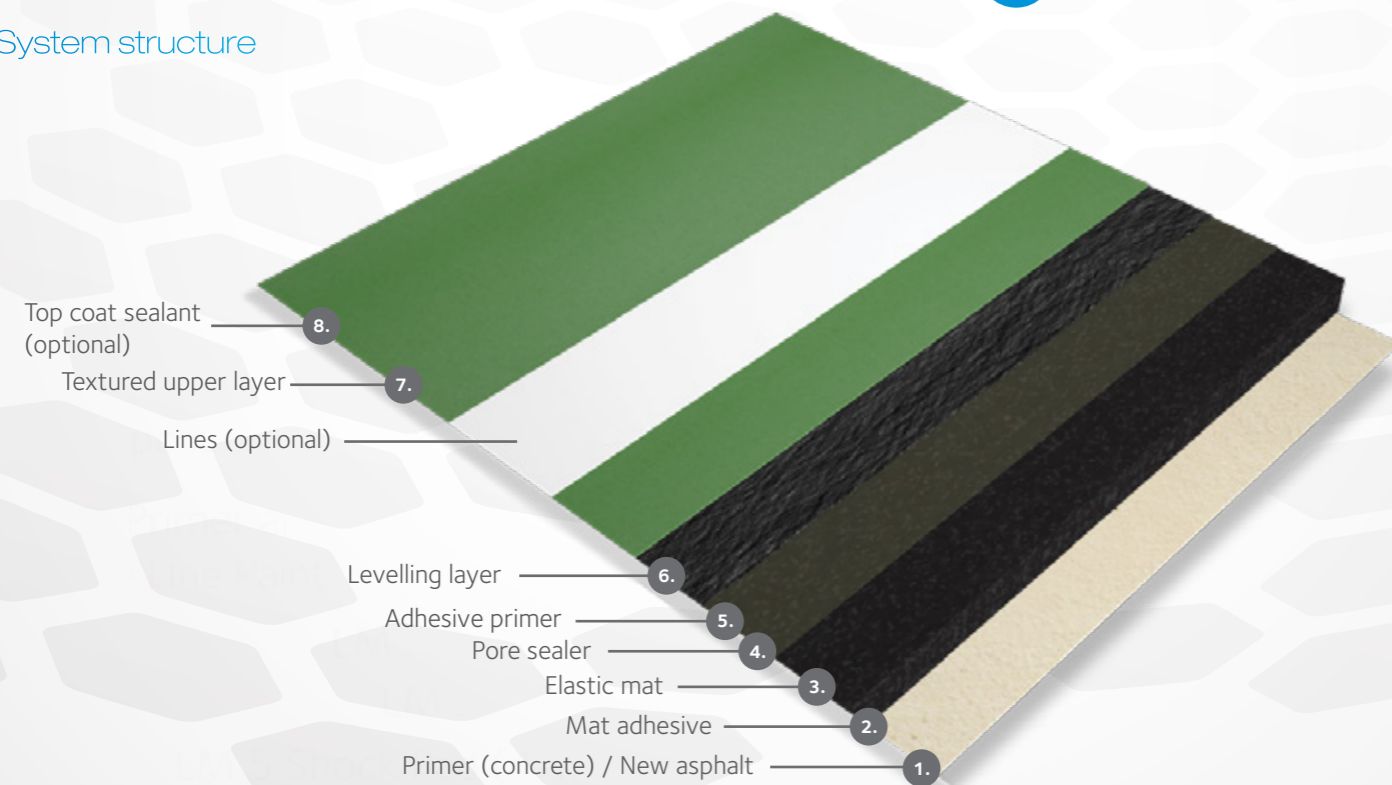
# Laykold Masters 5

Comfort of play like no other thanks to the cushioning effect of the Laykold Masters 5

Laykold Masters 5 is an all-weather acrylic system that is both hard-wearing and durable with a cushioning effect to improve the comfort of play. Its main areas of application are tennis courts and multi-sports surfaces (for basketball, volleyball, football). Regardless of how and where it is installed, a consistent surface structure can be achieved thanks to the defined quartz sand prefilling. Laykold Masters 5 is available in several colors, allowing you to add a creative splash to your asphalt or concrete surfaces whether old or new.

Laykold Masters 5 is laid seamlessly without any joints. With its textured and water-impermeable surface, it offers optimum sporting characteristics.

## System structure



- WIDE CHOICE OF COLORS
- UV-RESISTANT COLORS
- SLIP-RESISTANT
- DURABLE
- LOW ABRASION
- GOOD CUSHIONING EFFECT
- WATER-IMPERMEABLE
- FACTORY-TEXTURED TOPCOAT
- RESOURCE CONSERVATION
- CERTIFIABLE



Also available as  
**Laykold Masters 5 GT**  
 The new sustainable elastic mat – contains recycled tennis balls.

## Design and coverage

Layer	Product	Coverage	Additional components required	Application method	Installation steps	
1.	Primer (concrete)	LM Concrete Primer	None	Spraying	Step 1	
	new asphalt	LM FlexFill LM Acrylic Basecoat	0.25–0.35 kg/m <sup>2</sup> 0.29–0.40 kg/m <sup>2</sup>	Spread-coating Spread-coating	Step 1 Step 1	
2.	Mat adhesive	LM Adhesive	approx. 0.80 kg/m <sup>2</sup>	Flat coating	Step 1	
3.	Elastic mat <sup>4</sup> or LM 5 GT Elastic mat		4 mm	Gluing	Step 1	
	LM Sealer, for edges only	LM Sealer	approx. 80 kg	Flat coating	Step 1	
4.	Pore sealer	LM Sealer	0,80 kg/m <sup>2</sup>	Flat coating	2 steps	
5.	Adhesive primer	LM Bond Kote	0,10 kg/m <sup>2</sup>	Flat coating/Spraying <sup>3</sup>	Step 1	
6.	Levelling layer	LM Filler	0.30 kg/m <sup>2</sup> <sup>1</sup>	Water: 5 to 1	Spread-coating	2 steps
7.	Textured top coat					
	For classification 2	LM Topcoat undiluted	0.47–0.52 kg/m <sup>2</sup> <sup>1</sup>	Water: 5 to 1 <sup>2</sup>	Spread-coating	2 steps
	For classification 3	LM Topcoat undiluted	0.41–0.47 kg/m <sup>2</sup> <sup>1</sup>	Water: 5 to 1 <sup>2</sup>	Spread-coating	2 steps
	For classification 4	LM Topcoat undiluted	0.41–0.47 kg/m <sup>2</sup> <sup>1</sup>	Water: 5 to 1 <sup>2</sup>	Spread-coating	2 steps
8.	Top coat sealant For classification 4	LM Topcoat Finish undiluted	0.17–0.23 kg/m <sup>2</sup>	Water: 1 to 1	Spread-coating	Step 1

<sup>1</sup> Coverage per step // <sup>2</sup> The specified amount of water is assumed for an outside temperature of approx. 20°C. At higher temperatures, the water content can also be increased. // <sup>3</sup> e. g. with Wagner SF 35 sprayer // <sup>4</sup> Delivery time on request

Sub-floor properties and condition	A water-impermeable asphalt or concrete base layer is recommended to serve as a suitable sub-floor. The existing surface must be cleaned thoroughly before the product is applied. It must also be undamaged, dry and free from oils and other adhesion inhibitors. Any flaking and peeling, holes and other forms of substrate damage must be repaired. Similarly, all unevenness must be levelled out before starting the surface treatment.
ITF classifications	Classified Court Pace, Category 2 – Medium-Slow Classified Court Pace, Category 3 – Medium Classified Court Pace, Category 4 – Medium-Fast
Test certificates	ITF

## System properties

PROPERTIES	STANDARD	RESULT
Thickness	DIN EN 1969	5 mm
Impact absorption	DIN EN 14808	14 %
Vertical deformation	DIN EN 14809	0.5 mm
Vertical ball behaviour	DIN EN 12235	98 %
Angled ball behaviour	DIN EN 13865	29 (slow)
Friction	DIN EN 13036-4	99 (dry) / 65 (wet)
Abrasion resistance	DIN EN ISO 5470-1	0.52 g
Tensile strength (EN 12230)	DIN EN 12230	0.65 MPa / 60 %

**SEE ALSO:**  
 Technical data sheets  
 Page 52–68  
 Sub-floor recommendation  
 Page 38–44



## Foundation

Bound asphalt/concrete base layer

**Please take note of the sub-floor recommendation on page 38.**

## Preparation

The sub-floor must be free of dust, loose material and soiling such as oil and grease. Cement-bound sub-floors are usually prepared by grinding or shot-blasting. The residual humidity of the sub-floor must not exceed 4%, required adhesive pull strength  $\geq 1 \text{ N/mm}^2$ . The temperature of the sub-floor must be at least  $3^\circ\text{C}$  above the dew point.

### Primer (concrete)

LM Concrete Primer is supplied ready to use in 2-component containers. All of component B must be poured into the container of component A while stirring. Both components must be mixed together slowly (at a speed of approx. 300 rpm) for 3 to 5 minutes. The mixture is then transferred to another clean bucket and mixed for another minute. The LM Concrete Primer is then applied using a lambskin roller, rubber squeegee or airless sprayer. Sanding the surface is recommended. The quantity applied is  $0.15 \text{ kg/m}^2$ . If the area is only small, the adhesive primer can also be applied using a short-pile paint roller.

The formation of puddles should be avoided. The curing time is between 4–6 hours depending on temperature and air humidity. There should be no more than 24 hours between application of the adhesive primer and further processing.

### Primer (new asphalt)

LM FlexFill must be homogenised prior to use. Water is then added in a mixing ratio of 5:1 and the resulting mixture is stirred slowly at a speed of 300–500 rpm for at least 2 minutes until a homogeneous result is achieved. After that, the LM FlexFill is applied with a flat rubber squeegee. The average coverage is around  $0.25\text{--}0.35 \text{ kg/m}^2$  (without additional components). There should be no more than 24 hours between application of the adhesive primer and further processing.

### LM Acrylic Basecoat

All components must be mixed together slowly (at a speed of approx. 300 rpm) for 3 to 5 minutes. The amount and size of the sand may be varied to achieve different textures and filling properties. Larger sand will have greater filling properties.

The material must be applied with a flat rubber squeegee. The finished surface shall have a uniform appearance and be free of ridges and tool marks. If more than 1 application is applied, the 2nd application should be pulled at a  $90^\circ$  angle to the 1st application.

## Prefabricated elastic mat

LM Adhesive is supplied ready to use in 2-component containers. All of component B must be poured into the container of component A while stirring. Both components must be mixed together slowly (at a speed of approx. 300 rpm) for 3 to 5 minutes. The mixture is then transferred to another clean bucket and mixed for another minute. The LM Adhesive is then applied to the professionally prepared sub-floor with a toothed squeegee across the width of an entire matting strip. The average coverage is around  $0.80 \text{ kg/m}^2$  but this can vary depending on how open-pored the sub-floor is, and also on the air temperature. The elastic mat is rolled into the fresh adhesive bed and the ends are held down with weights. After approximately 30–60 minutes, pressure must be applied to the elastic mat with a laying roller weighing around 50 kg. Open seams must be avoided. If the elastic mat is right against a wall, a gap of 4 mm should be left between the mat and the wall. This gap is to be filled with LM Sealer.

## Pore sealer

LM Sealer is supplied ready to use in 2-component containers. The two components are stirred slowly at a speed of 300–500 rpm for 2 minutes to create a homogeneous mixture. The mixture is then transferred to another clean bucket and mixed for another minute. LM Sealer is then applied to the elastic mat with a flat rubber squeegee or a trowel. The average coverage is around  $0.80 \text{ kg/m}^2$  but this can vary depending on how open-pored the elastic mat is, and also on the air humidity. Before moving on to the next step, the smoothed surface should be inspected for open pores and any remaining ones sealed up.

## Adhesive primer

LM Bond Kote must be homogenised prior to use. The LM Bond Kote is then applied evenly to the professionally prepared elastic mat with a flat rubber squeegee. A spray application with e.g. Wagner SF 35 sprayer is also possible. The average coverage is around  $0.10 \text{ kg/m}^2$ .

## Levelling layer

LM Filler must be homogenised prior to use. Water is then added in a mixing ratio of 5:1 and the resulting mixture is stirred slowly at a speed of 300–500 rpm for at least 2 minutes until a homogeneous result is achieved. The LM Filler is then applied evenly to the professionally prepared sub-floor with a flat rubber squeegee. The average coverage is around  $0.30 \text{ kg/m}^2$  (without additional components).

## Textured top coat

LM Topcoat must be homogenised prior to use. Water is then added in a mixing ratio of 5:1 and the resulting mixture is stirred slowly at a speed of 300–500 rpm for at least 2 minutes until a homogeneous result is achieved. The LM Topcoat is then applied evenly to the professionally prepared sub-floor with a flat rubber squeegee in 2 steps.

### ITF classification 2

The average coverage is around  $0.47\text{--}0.52 \text{ kg/m}^2$  (without additional components).

### ITF classification 3

The average coverage is around  $0.41\text{--}0.47 \text{ kg/m}^2$  (without additional components).

The second step is carried out by applying the product with a flat rubber squeegee and smoothing it with a broom to ensure an even finish.

### ITF classification 4

The average coverage is around  $0.41\text{--}0.47 \text{ kg/m}^2$  (without additional components).

The second step is carried out by applying the product with a flat rubber squeegee and smoothing it with a broom to ensure an even finish.

### Top coat sealant (for classification 4)

LM Topcoat Finish must be homogenised prior to use. Water is then added in a mixing ratio of 1:1 and the resulting mixture is stirred slowly at a speed of 300–500 rpm for at least 2 minutes until a homogeneous result is achieved. After that, the Laykold Advantage is applied with a flat rubber squeegee. The average coverage is around  $0.17\text{--}0.23 \text{ kg/m}^2$  (without additional components). Make sure that the wet-on-wet method is used to prevent initial drying at the edges.

## Lines

Line specifications for tennis courts or multi-sports facilities can be found in this brochure (see pages 36–37). Prior to applying the lines, these areas must be masked off carefully with masking tape. The pre-prepared top coat should be left to cure for at least 24 hours. We recommend using Laykold Line Primer to achieve optimal results. The product is applied using a narrow paint roller. The adhesive primer is ready for a further coat once it has dried clear. Depending on the color of the previous coating, Laykold Line Paint is applied in one to two coats using a narrow paint roller. The masking tape should then be removed immediately after application. A minimum waiting period of 24 hours must be observed before the surface is suitable for playing on.

# Laykold Masters 8

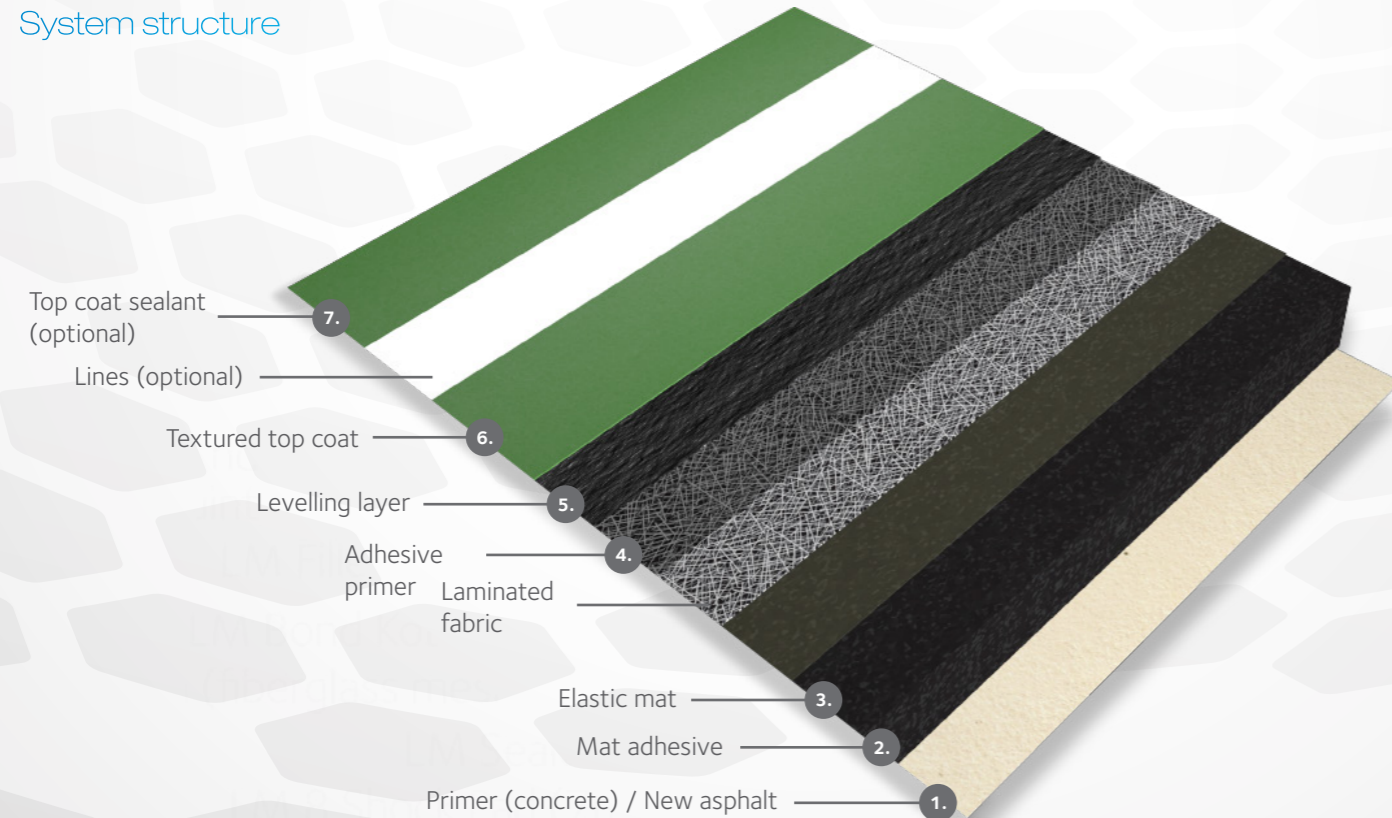
Optimum sporting characteristics with Laykold Masters 8

Laykold Masters 8 is an all-weather acrylic system that is both hard-wearing and durable and features a superb cushioning effect to improve the comfort of play. Its main areas of application are tennis courts and multi-sports surfaces (for basketball, volleyball, football). Regardless of how and where it is installed, a consistent surface structure can be achieved thanks to the defined quartz sand prefilling. Laykold Masters 8 is available in several colors, allowing you to add a creative splash to your asphalt or concrete surfaces whether old or new.

Laykold Masters 8 is laid seamlessly without any joints. With its textured and water-impermeable surface, it offers optimum sporting characteristics.

-  WIDE CHOICE OF COLORS
-  UV-RESISTANT COLORS
-  SLIP-RESISTANT
-  DURABLE
-  LOW ABRASION
-  EXCELLENT CUSHIONING EFFECT
-  WATER-IMPERMEABLE
-  FACTORY-TEXTURED TOPCOAT
-  RESOURCE CONSERVATION
-  CERTIFIABLE

## System structure



## Design and coverage

Layer	Product	Coverage	Additional components required	Application method	Installation steps	
1.	Primer (concrete)	LM Concrete Primer	None	Spraying	Step 1	
	new asphalt	LM FlexFill LM Acrylic Basecoat	Water: 5 to 1 Sand: 1 to 2.5 kg Cement: 1 to 0.9 kg	Spread-coating	Step 1	
2.	Mat adhesive	LM Adhesive	None	Flat coating	Step 1	
3.	Elastic mat <sup>4</sup> with laminated fabric			Gluing	Step 1	
	LM Sealer, for edges only	LM Sealer	118.8 kg in total	Spread-coating	Step 1	
4.	Adhesive primer	LM Bond Kote	None	Flat coating/Spraying <sup>3</sup>	Step 1	
5.	Levelling layer	LM Filler	Water: 5 to 1	Spread-coating	2 steps	
6.	Textured top coat					
	For classification 2	LM Topcoat undiluted	0.47–0.52 kg/m <sup>2</sup> <sup>1</sup>	Water: 5 to 1 <sup>2</sup>	Spread-coating	2 steps
	For classification 3	LM Topcoat undiluted	0.41–0.47 kg/m <sup>2</sup> <sup>1</sup>	Water: 5 to 1 <sup>2</sup>	Spread-coating	2 steps
	For classification 4	LM Topcoat undiluted	0.41–0.47 kg/m <sup>2</sup> <sup>1</sup>	Water: 5 to 1 <sup>2</sup>	Spread-coating	2 steps
7.	Top coat sealant For classification 4	LM Topcoat Finish undiluted	0.17–0.23 kg/m <sup>2</sup>	Water: 1 to 1	Spread-coating	Step 1

<sup>1</sup> Coverage per step // <sup>2</sup> The specified amount of water is assumed for an outside temperature of approx. 20°C. At higher temperatures, the water content can also be increased. // <sup>3</sup> e. g. with Wagner SF 35 sprayer // <sup>4</sup> Delivery time on request

Sub-floor properties and condition	A water-impermeable asphalt or concrete base layer is recommended to serve as a suitable sub-floor. The existing surface must be cleaned thoroughly before the product is applied. It must also be undamaged, dry and free from oils and other adhesion inhibitors. Any flaking and peeling, holes and other forms of substrate damage must be repaired. Similarly, all unevenness must be levelled out before starting the surface treatment.
ITF classifications	Classified Court Pace, Category 2 – Medium-Slow Classified Court Pace, Category 3 – Medium Classified Court Pace, Category 4 – Medium-Fast
Test certificates	ITF

## System properties

PROPERTIES	STANDARD	RESULT
Thickness	DIN EN 1969	8 mm
Impact absorption	DIN EN 14808	23 %
Vertical deformation	DIN EN 14809	0.8 mm
Vertical ball behaviour	DIN EN 12235	103 %
Angled ball behaviour	DIN EN 13865	30 (slow)
Friction	DIN EN 13036-4	99 (dry) / 65 (wet)
Abrasion resistance	DIN EN ISO 5470-1	0.52 g
Tensile strength (EN 12230)	DIN EN 12230	1.81 Mpa / 53 %

**SEE ALSO:**  
 Technical data sheets  
 Page 52–68  
 Sub-floor recommendation  
 Page 38–44



## Foundation

Bound asphalt/concrete base layer

**Please take note of the sub-floor recommendation on page 38.**

## Preparation

The sub-floor must be free of dust, loose material and soiling such as oil and grease. Cement-bound sub-floors are usually prepared by grinding or shot-blasting. The residual humidity of the sub-floor must not exceed 4%, required adhesive pull strength  $\geq 1\text{N/mm}^2$ . The temperature of the sub-floor must be at least  $3^\circ\text{C}$  above the dew point.

### Primer (concrete)

LM Concrete Primer is supplied ready to use in 2-component containers. All of component B must be poured into the container of component A while stirring. Both components must be mixed together slowly (at a speed of approx. 300 rpm) for 3 to 5 minutes. The mixture is then transferred to another clean bucket and mixed for another minute. The LM Concrete Primer is then applied using a lambskin roller, rubber squeegee or airless sprayer. Sanding the surface is recommended. The quantity applied is  $0.15\text{ kg/m}^2$ . If the area is only small, the adhesive primer can also be applied using a short-pile paint roller.

The formation of puddles should be avoided. The curing time is between 4–6 hours depending on temperature and air humidity. There should be no more than 24 hours between application of the adhesive primer and further processing.

### Primer (new asphalt)

LM FlexFill must be homogenised prior to use. Water is then added in a mixing ratio of 5:1 and the resulting mixture is stirred slowly at a speed of 300–500 rpm for at least 2 minutes until a homogeneous result is achieved. After that, the LM FlexFill is applied with a flat rubber squeegee. The average coverage is around  $0.25\text{--}0.35\text{ kg/m}^2$  (without additional components). There should be no more than 24 hours between application of the adhesive primer and further processing.

### LM Acrylic Basecoat

All components must be mixed together slowly (at a speed of approx. 300 rpm) for 3 to 5 minutes. The amount and size of the sand may be varied to achieve different textures and filling properties. Larger sand will have greater filling properties.

The material must be applied with a flat rubber squeegee. The finished surface shall have a uniform appearance and be free of ridges and tool marks. If more than 1 application is applied, the 2nd application should be pulled at a  $90^\circ$  angle to the 1st application.

## Prefabricated elastic mat

LM Adhesive is supplied ready to use in 2-component containers. All of component B must be poured into the container of component A while stirring. Both components must be mixed together slowly (at a speed of approx. 300 rpm) for 3 to 5 minutes. The mixture is then transferred to another clean bucket and mixed for another minute. The LM Adhesive is then applied to the professionally prepared sub-floor with a toothed squeegee across the width of an entire matting strip. The average coverage is around  $0.80\text{ kg/m}^2$  but this can vary depending on how open-pored the sub-floor is, and also on the air temperature. The elastic mat is rolled into the fresh adhesive bed and the ends are held down with weights. A gap of approx. 4 mm should be left at the edges of individual lanes of the elastic mat. Should the elastic mat border to a wall, we recommend to leave a gap of approx. 4 mm. After approximately 30–60 minutes, pressure must be applied to the elastic mat with a laying roller weighing around 50 kg. After curing of the LM adhesive, the interfaces of the single lanes of elastic mats must be filled with LM sealer flush with the surface. We recommend to this work in 2 steps to avoid a post-sagging of the material in the interfaces. This is also valid for the possible edge connections.

## Pore sealer

LM Bond Kote must be homogenised prior to use. The LM Bond Kote is then applied to the elastic mat with a flat rubber squeegee or a trowel. The average coverage is around  $0.25\text{ kg/m}^2$  but this can vary depending on how open-pored the elastic mat is, and also on the air temperature. Before moving on to the next step, the smoothed surface should be inspected for open pores and any remaining ones sealed up.

## Levelling layer

LM Filler must be homogenised prior to use. Water is then added in a mixing ratio of 5:1 and the resulting mixture is stirred slowly at a speed of 300–500 rpm for at least 2 minutes until a homogeneous result is achieved. The LM Filler is then applied evenly to the professionally prepared sub-floor with a flat rubber squeegee. The average coverage is around  $0.30\text{ kg/m}^2$  (without additional components).

## Textured top coat

LM Topcoat must be homogenised prior to use. Water is then added in a mixing ratio of 5:1 and the resulting mixture is stirred slowly at a speed of 300–500 rpm for at least 2 minutes until a homogeneous result is achieved. The LM Topcoat is then applied evenly to the professionally prepared sub-floor with a flat rubber squeegee in 2 steps.

### ITF classification 2

The average coverage is around  $0.47\text{--}0.52\text{ kg/m}^2$  (without additional components).

### ITF classification 3

The average coverage is around  $0.41\text{--}0.47\text{ kg/m}^2$  (without additional components).

The second step is carried out by applying the product with a flat rubber squeegee and smoothing it with a broom to ensure an even finish.

### ITF classification 4

The average coverage is around  $0.41\text{--}0.47\text{ kg/m}^2$  (without additional components).

The second step is carried out by applying the product with a flat rubber squeegee and smoothing it with a broom to ensure an even finish.

### Top coat sealant (for classification 4)

LM Topcoat Finish must be homogenised prior to use. Water is then added in a mixing ratio of 1:1 and the resulting mixture is stirred slowly at a speed of 300–500 rpm for at least 2 minutes until a homogeneous result is achieved. After that, the LM Topcoat Finish is applied with a flat rubber squeegee. The average coverage is around  $0.17\text{--}0.23\text{ kg/m}^2$  (without additional components). Make sure that the wet-on-wet method is used to prevent initial drying at the edges.

## Lines

Line specifications for tennis courts or multi-sports facilities can be found in this brochure (see pages 36–37). Prior to applying the lines, these areas must be masked off carefully with masking tape. The pre-prepared top coat should be left to cure for at least 24 hours. We recommend using Laykold Line Primer to achieve optimal results. The product is applied using a narrow paint roller. The adhesive primer is ready for a further coat once it has dried clear. Depending on the color of the previous coating, Laykold Line Paint is applied in one to two coats using a narrow paint roller. The masking tape should then be removed immediately after application. A minimum waiting period of 24 hours must be observed before the surface is suitable for playing on.










# Laykold® Masters Gel

The cushion court system of renewable resources

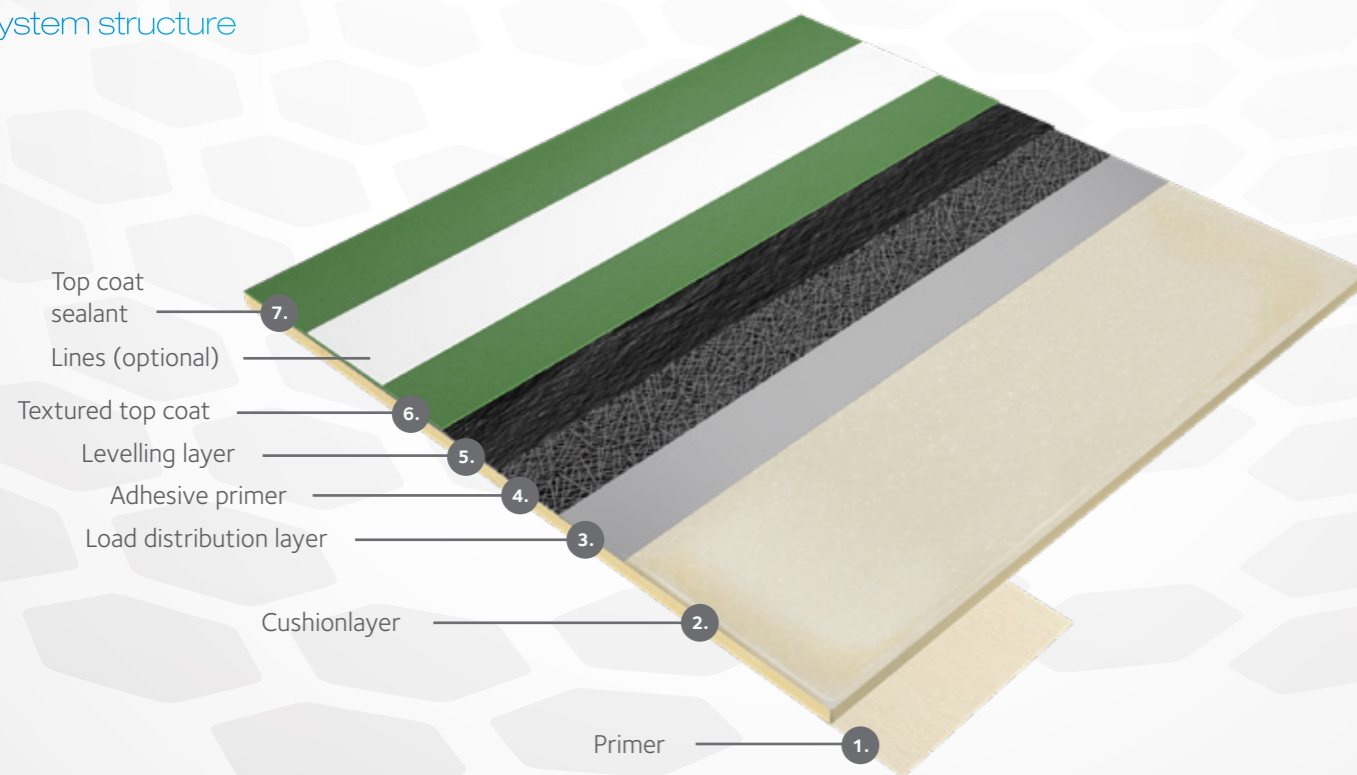
Laykold® Masters Gel is a revolutionary cushion court system made from more than 60 % renewable resources.

The all-weather system offers a wide range of benefits for all ages and abilities. From the recreational athlete to the professional, Laykold® Masters Gel provides more than 17 % force reduction and improves player performance by reducing joint impact and body fatigue.

Whether you are playing at the net or baseline, you can be sure that both ball speed and stance remain the same.

-  EXCELLENT CUSHIONING EFFECT
-  SEAMLESS
-  WIDE CHOICE OF COLORS
-  UV-RESISTANT COLORS
-  SLIP-RESISTANT
-  DURABLE
-  LOW ABRASION
-  RESOURCE CONSERVATION
-  CERTIFIABLE

## System structure



## Design and coverage

Layer	Product	Coverage	Additional components required	Application method	Installation steps		
1.	Primer (concrete) or asphalt	LM Concrete Primer	0.15 kg/m <sup>2</sup>	None	Spraying	Step 1	
		PC 11-010	0.15–0.20 kg/m <sup>2</sup>	None	Spraying	Step 1	
2.	Cushionlayer	LM Gel	2.70 kg/m <sup>2</sup>	None	Spread-coating	Step 1	
3.	Load distribution layer	LM Wearcoat	1.30 kg/m <sup>2</sup>	None	Spread-coating	Step 1	
4.	Adhesive primer	LM Bond Kote	0.20 kg/m <sup>2</sup>	None	Spread-coating	Step 1	
5.	Levelling layer	LM Filler	0.20 kg/m <sup>2</sup> <sup>1</sup>	Water: 5 to 1	Spread-coating	2 steps	
6.	Textured top coat						
		For classification 2	LM Topcoat undiluted	0.47–0.52 kg/m <sup>2</sup> <sup>1</sup>	Water: 5 to 1 <sup>2</sup>	Spread-coating	2 steps
		For classification 3	LM Topcoat undiluted	0.41–0.47 kg/m <sup>2</sup> <sup>1</sup>	Water: 5 to 1 <sup>2</sup>	Spread-coating	2 steps
		For classification 4	LM Topcoat undiluted	0.41–0.47 kg/m <sup>2</sup> <sup>1</sup>	Water: 5 to 1 <sup>2</sup>	Spread-coating	2 steps
7.	Top coat sealant For classification 4	LM Topcoat Finish undiluted	0.17–0.23 kg/m <sup>2</sup>	Water: 1 to 1	Spread-coating	Step 1	

<sup>1</sup> Coverage per step // <sup>2</sup> The specified amount of water is assumed for an outside temperature of approx. 20°C. At higher temperatures, the water content can also be increased.

Sub-floor properties and condition	A water-impermeable asphalt or concrete base layer is recommended to serve as a suitable sub-floor. The existing surface must be cleaned thoroughly before the product is applied. It must also be undamaged, dry and free from oils and other adhesion inhibitors. Any flaking and peeling, holes and other forms of substrate damage must be repaired. Similarly, all unevenness must be levelled out before starting the surface treatment.
ITF classifications	Classified Court Pace, Category 2 – Medium-Slow Classified Court Pace, Category 3 – Medium Classified Court Pace, Category 4 – Medium-Fast
Test certificates	ITF

**SEE ALSO:**  
 Technical data sheets  
 Page 52–68  
 Sub-floor recommendation  
 Page 38–44





## Foundation

Bound asphalt/concrete base layer

**Please take note of the sub-floor recommendation on page 38.**

## Preparation

The sub-floor must be free of dust, loose material and soiling such as oil and grease. Cement-bound sub-floors are usually prepared by grinding or shot-blasting. The residual humidity of the sub-floor must not exceed 4%, required adhesive pull strength  $\geq 1\text{N/mm}^2$ . The temperature of the sub-floor must be at least  $3^\circ\text{C}$  above the dew point.

### Primer (concrete)

LM Concrete Primer is supplied ready to use in 2-component containers. All of component B must be poured into the container of component A while stirring. Both components must be mixed together slowly (at a speed of approx. 300 rpm) for 3 to 5 minutes. The mixture is then transferred to another clean bucket and mixed for another minute. The LM Concrete Primer is then applied using a lambskin roller, rubber squeegee or airless sprayer. Sanding the surface is recommended. The quantity applied is  $0.15\text{ kg/m}^2$ . If the area is only small, the adhesive primer can also be applied using a short-pile paint roller.

The formation of puddles should be avoided. The curing time is between 4–6 hours depending on temperature and air humidity. There should be no more than 24 hours between application of the adhesive primer and further processing.

### Primer (asphalt)

PC11-010 is a one-component PUR primer that can be applied directly. PC 11-010 is applied using an airless sprayer. The average coverage is around  $0.15\text{--}0.20\text{ kg/m}^2$  (without additional components).

There should be no more than 24 hours between application of the adhesive primer and further processing.

## Laykold Gel

LM Gel is supplied ready-for-use in 2-component containers. The A Component must be homogenised for 1–2 minutes prior to use. The two components are stirred slowly at a speed of 300–500 rpm for at least 2 minutes to create a homogeneous mixture. LM Gel is then transferred to another clean bucket and mixed for another minute. LM Gel is applied with a rubber squeegee. The average coverage is around  $2.70\text{ kg/m}^2$ .

## Laykold Wearcoat

LM Wearcoat is supplied ready-for-use in 2-component containers. The A Component must be homogenised for 1–2 minutes prior to use. The two components are stirred slowly at a speed of 300–500 rpm for at least 2 minutes to create a homogeneous mixture. LM Wearcoat is then transferred to another clean bucket and mixed for another minute. LM Waercoat is applied with a rubber squeegee. The average coverage is around  $1.30\text{ kg/m}^2$ .

## Adhesive primer

LM Bond Kote must be homogenised prior to use. The LM Bond Kote is then applied evenly to the professionally prepared elastic mat with a flat rubber squeegee in 1 step. A spray application with e.g. Wagner SF 35 sprayer is also possible. The average coverage is around  $0.20\text{ kg/m}^2$ .

## Levelling layer

LM Filler must be homogenised prior to use. Water is then added in a mixing ratio of 5:1 and the resulting mixture is stirred slowly at a speed of 300–500 rpm for at least 2 minutes until a homogeneous result is achieved. The LM Filler is then applied evenly to the professionally prepared sub-floor with a flat rubber squeegee. The average coverage is around  $0.40\text{ kg/m}^2$  (without additional components). LM Filler is applied in 2 working steps.

## Textured top coat

LM Topcoat must be homogenised prior to use. Water is then added in a mixing ratio of 5:1 and the resulting mixture is stirred slowly at a speed of 300–500 rpm for at least 2 minutes until a homogeneous result is achieved. The LM Topcoat is then applied evenly to the professionally prepared sub-floor with a flat rubber squeegee in 2 steps.

### ITF classification 2

The average coverage is around  $0.47\text{--}0.52\text{ kg/m}^2$  (without additional components).

### ITF classification 3

The average coverage is around  $0.41\text{--}0.47\text{ kg/m}^2$  (without additional components).

The second step is carried out by applying the product with a flat rubber squeegee and smoothing it with a broom to ensure an even finish.

### ITF classification 4

The average coverage is around  $0.41\text{--}0.47\text{ kg/m}^2$  (without additional components).

The second step is carried out by applying the product with a flat rubber squeegee and smoothing it with a broom to ensure an even finish.

### Top coat sealant (for classification 4)

LM Topcoat Finish must be homogenised prior to use. Water is then added in a mixing ratio of 1:1 and the resulting mixture is stirred slowly at a speed of 300–500 rpm for at least 2 minutes until a homogeneous result is achieved. After that, the LM Topcoat Finish is applied with a flat rubber squeegee. The average coverage is around  $0.17\text{--}0.23\text{ kg/m}^2$  (without additional components). Make sure that the wet-on-wet method is used to prevent initial drying at the edges.

## Lines



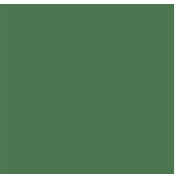

Line specifications for tennis courts or multi-sports facilities can be found in this brochure (see pages 36–37). Prior to applying the lines, these areas must be masked off carefully with masking tape. The pre-prepared top coat should be left to cure for at least 24 hours. We recommend using Laykold Line Primer to achieve optimal results. The product is applied using a narrow paint roller. The adhesive primer is ready for a further coat once it has dried clear. Depending on the color of the previous coating, Laykold Line Paint is applied in one to two coats using a narrow paint roller. The masking tape should then be removed immediately after application. A minimum waiting period of 24 hours must be observed before the surface is suitable for playing on.

# Color chart

## Standard colors

	<b>Beach beige</b> approx. RAL 1011		<b>Pumpkin</b> approx. RAL 2000		<b>Candy red</b> approx. RAL 3002
	<b>Burgundy</b> approx. RAL 3005		<b>Red</b> approx. RAL 3009		<b>Coral</b> approx. RAL 3017
	<b>Purple</b> approx. RAL 4005		<b>Royal Purple</b> approx. RAL 4007		<b>Dark blue</b> approx. RAL 5011
	<b>Light blue</b> approx. RAL 5015		<b>Grass green</b> approx. RAL 6017		<b>Spring green</b> approx. RAL 6018
	<b>Dark green</b> approx. RAL 6020		<b>Dark grey</b> approx. RAL 7022		<b>Light grey</b> approx. RAL 7036
	<b>Arctic blue</b> This color does not correspond to any RAL color.		<b>Teal</b> This color does not correspond to any RAL color.		

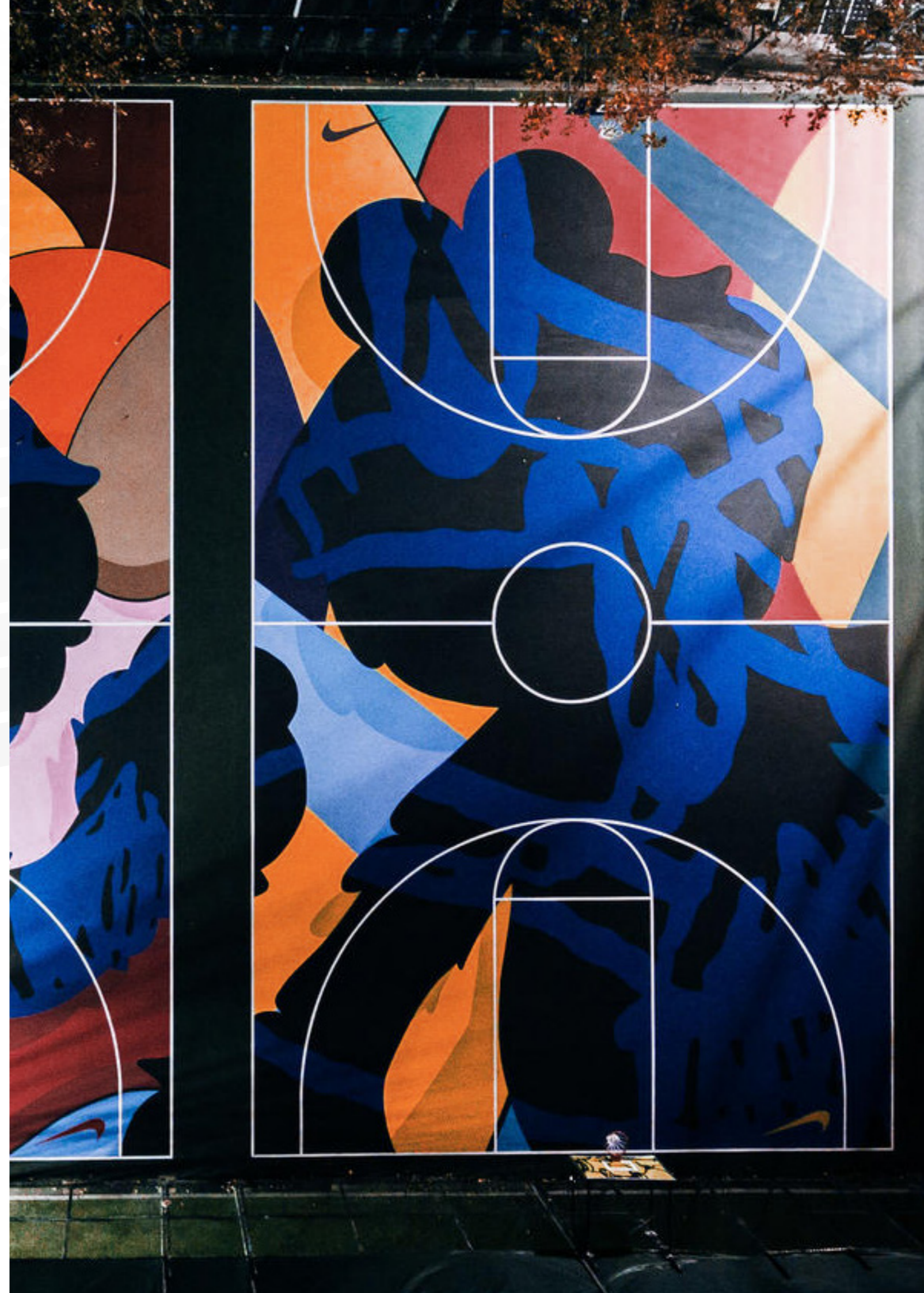
## Tournament colors

	<b>US Open Blue</b>		<b>Miami Open Biscayne Blue</b>
	<b>US Open Green</b>		<b>Miami Open Oasis Blue</b>



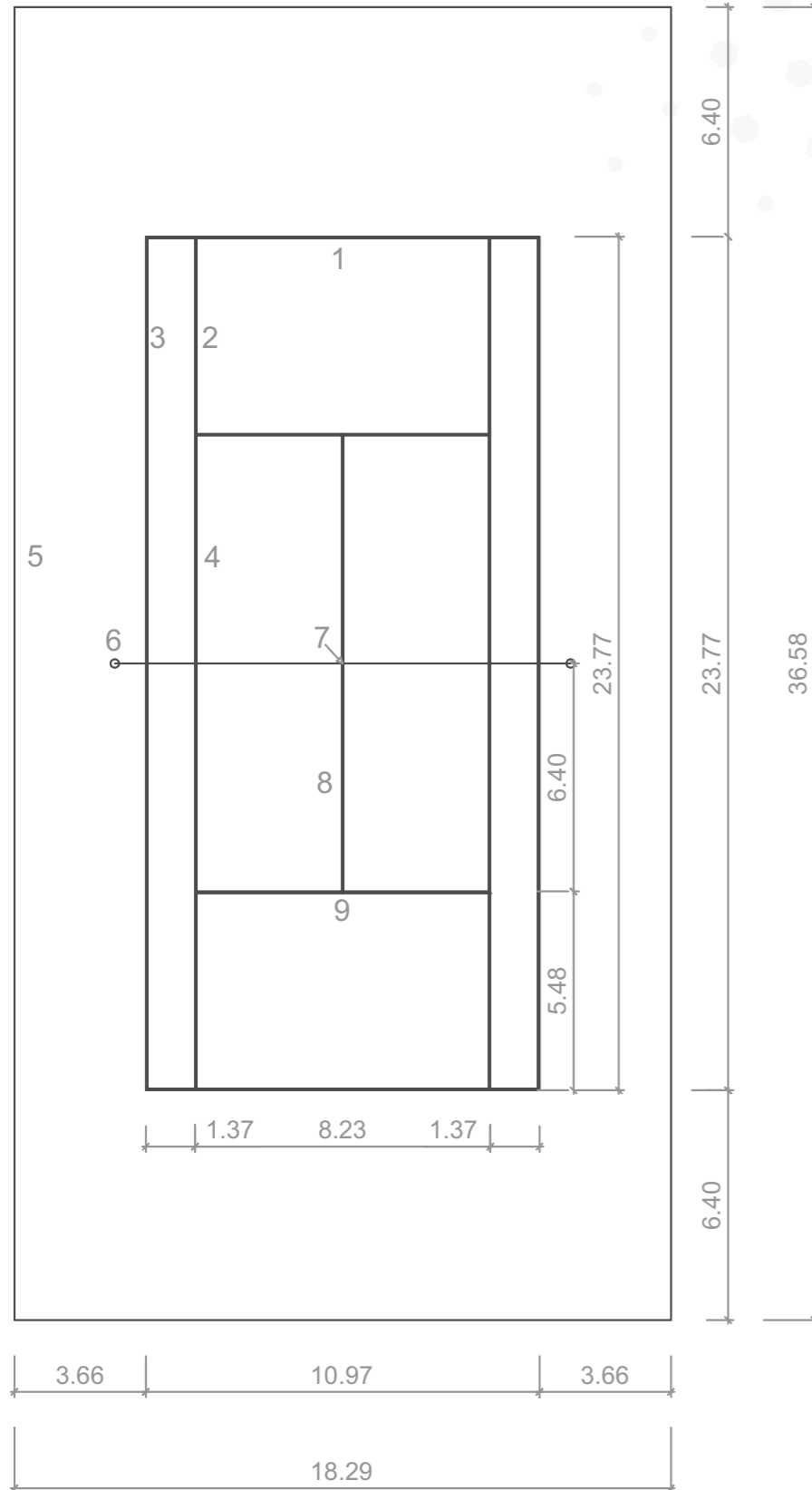
More colors on request.

<sup>1</sup> The RAL color specifications are non-binding approximations. Deviations in color reproduction in the illustrations are due to printing technology. We recommend ordering color charts.



# Dimensions

Tennis court

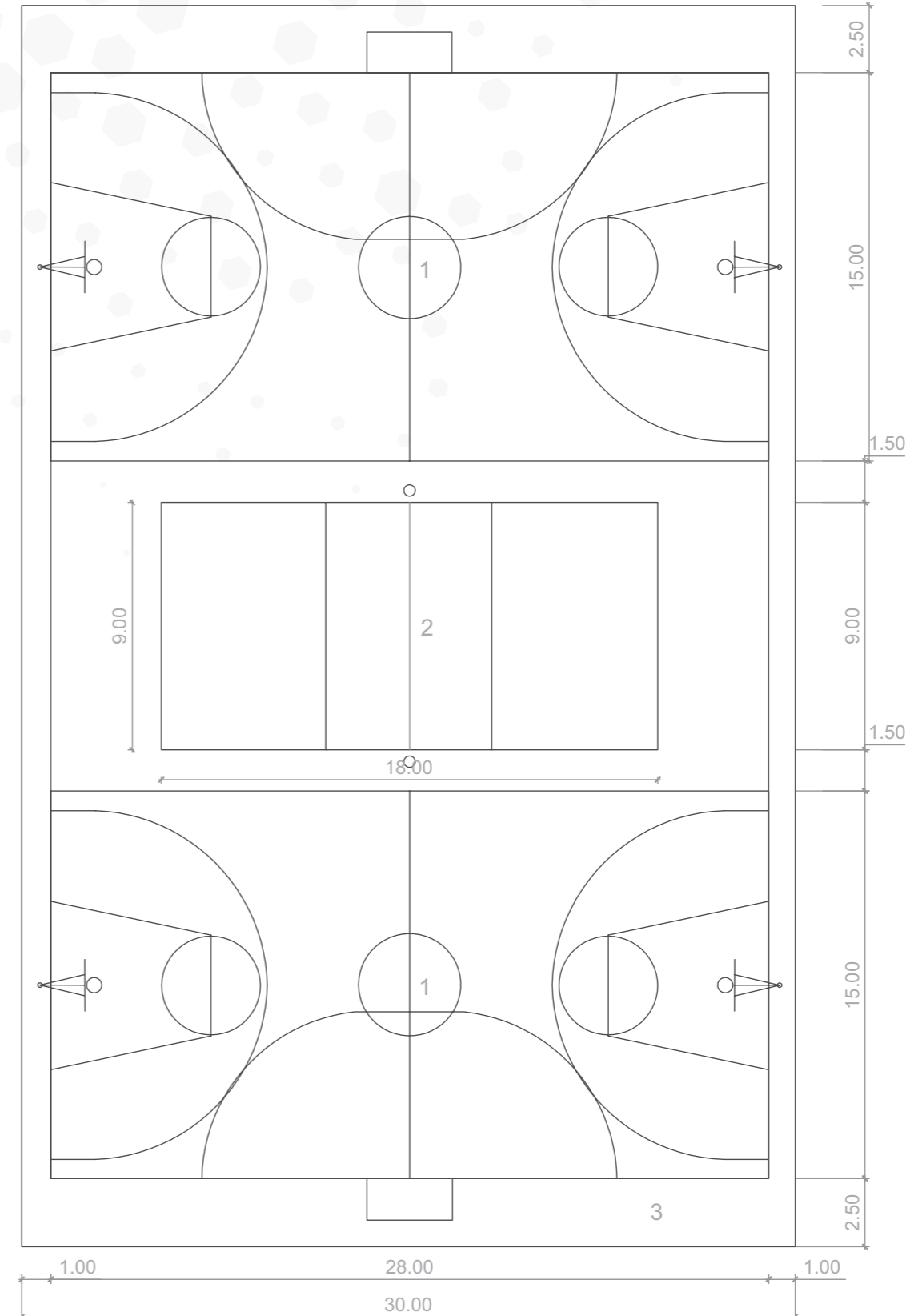


## Legende

- 1 Base line
- 2 Singles sideline
- 3 Doubles sideline
- 4 Singles and doubles alley lines
- 5 Perimeter
- 6 Posts
- 7 Net (Net height: 0.914 m from ground)
- 8 Centre service line
- 9 Service line

all dimensions in m

Multi-sports surface



## Legende

- 1 Basketball
  - 2 Volleyball
  - 3 Safety area circulating
- Total field: handball- and soccer pitch

all dimensions in m

# Sub-floor recommendation

With acrylic tennis court coatings, the flatness requirements for the formation are extremely stringent. Melos GmbH recommends having a water-impermeable asphalt to serve as a sub-floor. The following non-binding recommendation applies to all Laykold systems.

It is also possible to install Laykold systems on a concrete formation/base.

However, concrete surfaces (particularly outdoor ones) tend to develop stress cracks because concrete is a hard/brittle material. Laykold ColorCoat, Advantage and Masters Color do not have any crack-bridging properties and so any cracks that occur in the concrete base may also appear in the Laykold systems.

Melos GmbH expressly draws attention to the fact that no claims for defects in the supplied products can be made as a result of this.

## Slope overview

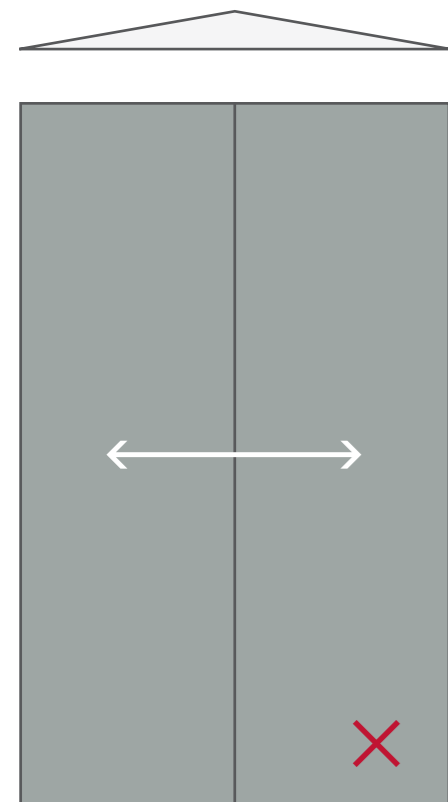


Fig. 1: Lengthways gable roof slope

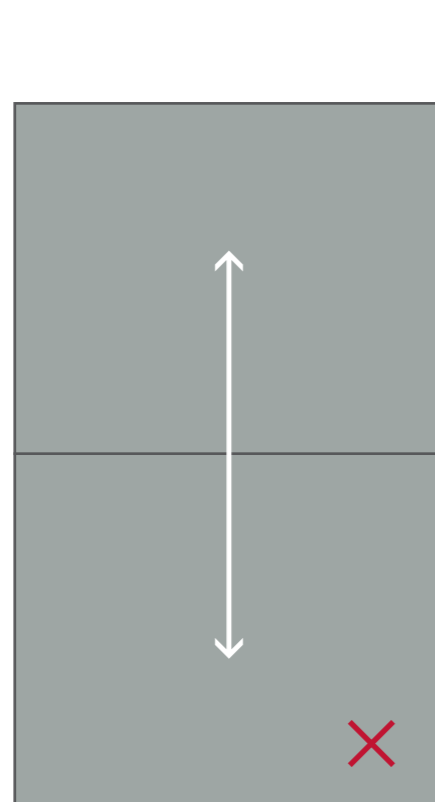


Fig. 2: Crossways gable roof slope

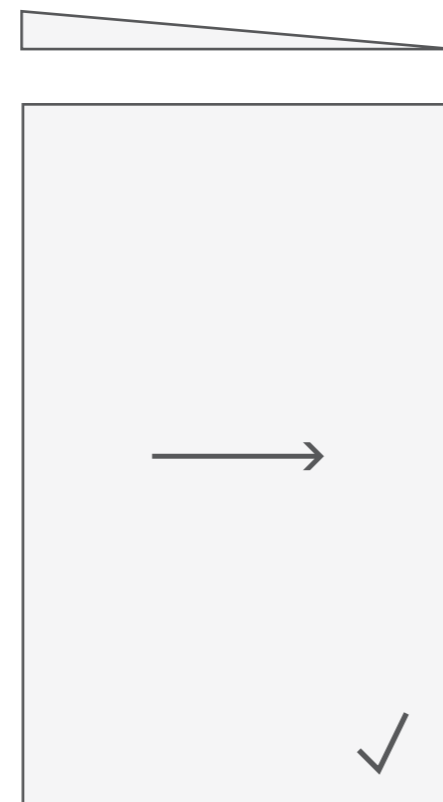


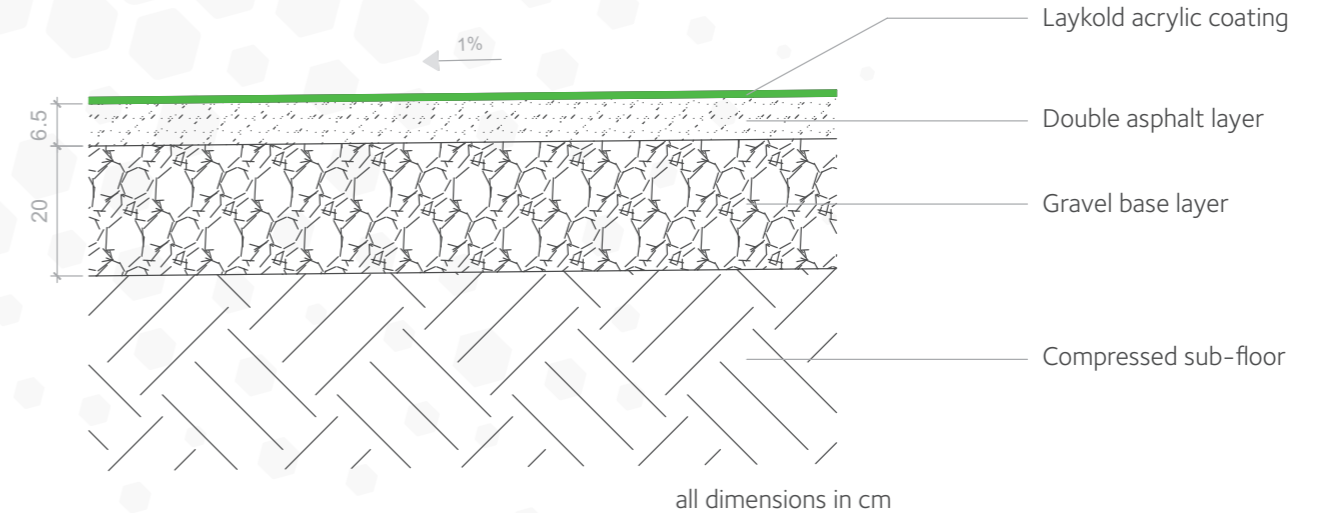
Fig. 3: Pent roof slope

## Slope

It is absolutely essential that outdoor asphalt/concrete tennis courts be constructed with a uniform slope (running from side to side). Tennis court slopes are supposed to have a steepness of 0.8% (tolerance +/-0.2%).

We recommend a slope of 1%. This is conducive to water drainage and helps to remove residual water. Indoor courts can be constructed without a slope.

## Standardised cross section of the structure



## Formation requirements

### 1. Formation

The formation requirements can be taken from DIN 18035-6, which provides a good point of reference:

PROPERTIES	REQUIREMENTS WITH		TEST ACC. TO
	Coarse-grained soil	Mixed and fine-grained soils	
<b>Slope of formation</b>	0.5 % transverse slope		Levelling
<b>Formation height</b>	Limit of deviation from nominal height +/- 30 mm		Levelling
<b>Formation flatness</b>	Position deviation ( $a_s$ ) as a limit value for distance between measuring points ( $a_m$ ) <sup>d</sup> $a_m$ $a_s$ 1 m < 23 mm 4 m < 30 mm		DIN 18202, with straight-edge according to DIN EN 13036-7, A-deviation
<b>Degree of compaction DPr</b>	> 1.0	> 0.97	DIN 18125-2
<b>Modulus of deformation Ev2</b>	> 45 N/mm <sup>2</sup>		DIN 18134
<b>Ratio, Ev2Ev1</b>	< 2.3	< 2.5	DIN 18134
<b>Water infiltration rate Ic</b>	72 mm/h <sub>c</sub> (2 l of test liquid must have drained off within the space of 2.5 min)		DIN EN 12616, method C

## 2. Gravel base layer

The requirements for the gravel base layer can be taken from DIN 18035-6, which provides a good point of reference: The material should take the form of chalk, granite or sandstone. The important point is to use a crushed (i.e. grained) material. The use of slag or clinker of any kind as well as recycled materials is not permitted.

Requirements for the material:

PROPERTIES	REQUIREMENTS	TEST ACC. TO
<b>Grain size distribution</b>	0/32 or two-layer 0/32 (14 cm) + 0/16 (6 cm)	DIN EN 933-1
<b>Fines content</b>	Category UF5 according to TL SoB-StB 04* *technical terms of delivery for construction material mixtures and soil for the construction of binderless layers in road construction	DIN EN 933-1
<b>Shape index</b>	Category SI50 acc. to TL Gestein-StB* *technical delivery terms for aggregates in road construction	DIN EN 933-4
<b>Resistance to frost</b>	Category F4 acc. to TL Gestein-StB* *technical delivery terms for aggregates in road construction	DIN EN 1367-1
<b>Water permeability k*</b>	> 2 X 10 <sup>-2</sup> cm/s	DIN 18035-5:2007-08,6.6.1
<b>Slope</b>	1 % transverse slope	Levelling
<b>Height</b>	Limit of deviation from nominal height +/- 20 mm	Levelling
<b>Flatness</b>	Position deviation (a <sub>s</sub> ) as a limit value for distance between measuring points (a <sub>m</sub> ) <sup>d</sup> a <sub>m</sub> a <sub>s</sub> 1 m < 8 mm 4 m < 12 mm	DIN 18202, with straight-edge according to DIN EN 13036-7, A-deviation
<b>Thickness</b>	> 200 mm	DIN 18134
<b>Ratio, Ev2Ev1</b>	< 2.5	DIN 18134
<b>Water infiltration rate I<sub>c</sub></b>	720 mm/h <sub>C</sub> (2 l of test liquid must have drained off within the space of 2.5 min)	DIN EN 12616, method C
<b>Fines Content</b>	Mass fraction of constituent parts d < 0.063 mm Maximum of 7 %	

## 3. Asphalt base layer

Requirements for water-impermeable asphalt base layer as per DIN 18035-6:

PROPERTIES	REQUIREMENTS WITH		TEST ACC. TO
	Lower asphalt layer	Upper asphalt layer	
<b>Asphalt mix designation</b>	AC 16 TL/TN AC 11 BN/TL	AC 8 DL AC 5 DL	TP Asphalt-StB
<b>Binder, type and grade</b>	50/70 recommended (70/100)		DIN EN 1427
<b>Aggregate according to TL Gestein-StB* *technical delivery terms for aggregates in road construction</b>			
<b>Proportion of broken surfaces</b>	CNR	C90/1	DIN EN 933-5
<b>Shape of the coarse aggregates</b>	SI50	SI20	DIN EN 933-4
<b>Composition of asphalt mix</b>			TP Asphalt-StB
<b>Minimum binder content</b>	B <sub>min</sub> 4.0	B <sub>min</sub> 6.6	
<b>Mix properties</b>			TP Asphalt-StB
<b>Minimum voids content (MPK)</b>	V <sub>min</sub> 4.0	V <sub>min</sub> 1.0	
<b>Maximum voids content (MPK)</b>	V <sub>max</sub> 7.0	V <sub>max</sub> 2.5	
<b>Asphalt types acc. to TL Asphalt-StB 07* *technical delivery terms for asphalt mixtures for the construction of asphalt pavements</b>	AC 16 TL/TN AC 11 BN/TL	AC 8 DL* AC 5 DL**	TP Asphalt-StB
<b>Slope</b>	1 %		Levelling
<b>Height</b>	Limit of deviation from nominal height +/- 6 mm		Levelling
<b>Flatness</b>	Position deviation (a <sub>s</sub> ) as a limit value for distance between measuring points (a <sub>m</sub> ) <sup>d</sup> a <sub>m</sub> a <sub>s</sub> 1 m < 2 mm 4 m < 6 mm		DIN 18202, with straight-edge according to DIN EN 13036-7, A-deviation
<b>Thickness</b>	40 mm	25-35 mm* 20-25 mm**	TP D-StB
<b>Degree of compaction DPr</b>	> 95 %	> 95 %/97 %	TP Asphalt-StB

## Installing the asphalt base layer

A medium-sized tracked paver (approx. 8 tonnes) with a laser control system should be used for installation.

The flatness of the asphalt layers must be checked several times during installation.

- At paver discharge, before compactor
- After compaction

Formation of joints during paving

Joints with cold cracks (transverse joints) or indentations in the surface will reduce the durability of the asphalt base layer (increased appearance of cracks).

Cold cracks (transverse joints) occur during asphaltting if, instead of installing the hot-mix asphalt layers directly one after another, you leave a gap of one or more days in between. For the purpose of applying the upper layer, it is **absolutely essential** that the two asphalt layers be joined together on the same day using the **hot mix process**.

### For this reason, several precautions must be taken:

- Install the asphalt layers on a single day.
- Optimise the asphalt transportation and production times to ensure that the asphalt is hot.
- Plan how the asphalt is to be discharged from the paver with the aid of an installation plan. The planned asphalt layers should be sketched onto the ground to make installation easier and so that a clean and straight joint can be created.



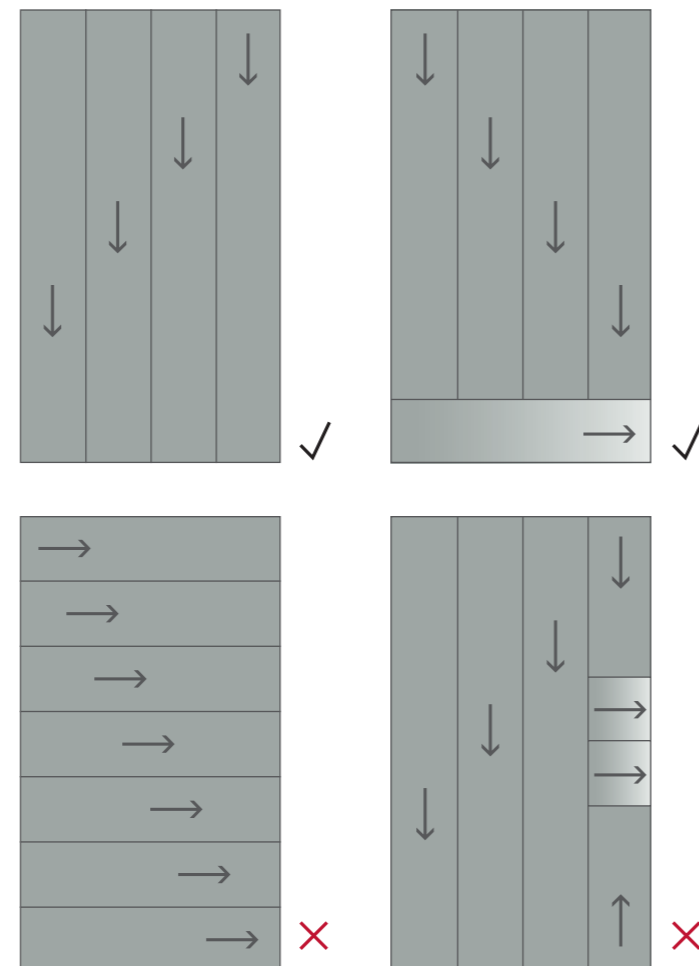
When installing the asphalt, please be aware that no cuts are to be made in the material anywhere on the tennis court's surface, e.g. with a concrete cutter or similar equipment.

A concrete cutter will cut through the granulate material in its entirety and will destroy any joint, in turn automatically creating a crack that will be difficult to repair.

### For this reason, several precautions must be taken:

- To make a cut, do it manually with a trowel while the asphalt is still hot. Alternatively, use a piece of square tubing at the end of the paving strip, making sure that it has the same thickness as the asphalt layer that is currently being produced.
- Create the slots for the tennis posts or perimeter fencing before you install the first asphalt layer or between installing the first and second layers.
- Get the workperson to map out the installation plan on the ground so that they can plan their cut with the trowel at the correct point.

Travel recommendations for the asphalt paver



## IMPORTANT!

### Flatness

The flatness of the formation under the 4 m straight-edge must be less than 6 mm at every point and in every direction.

Bumps of more than 6 mm must be removed using a grinder. Depressions with a depth more than 6 mm can be levelled with a filler, although this involves additional expense (more material/labour) (see information on levelling depressions).

### Imperfections

The following defects must be avoided during installation:

- Unevenness caused by compaction
- Joints with depressions, cold cracks or indentations
- Material fractures
- Microcracking and cracks
- Holes
- Presence of foreign matter (e.g. clods of earth)
- Material separation at the surface
- Footprints and tyre marks

## Levelling depressions (> 6 mm)

Depressions/hollows in the sub-floor can be determined by flooding the surface with water. Areas, in which the water is at a height of 6 mm or more, must be levelled out in advance. These depressions can be levelled out with Laykold Deep Patch.

Depressions/hollows up to 9 mm:

Dry mix 19 litres of quartz sand (grain size up to 0.15 mm) with 3.8 litres of Portland cement. Then add 3.8–7.6 litres of Laykold Deep Patch and mix evenly with a mechanical mixer.

Depressions/hollows up to 18 mm:

Dry mix 19 litres of quartz sand (grain size up to 0.25 mm) with 3.8 litres of Portland cement. Then add 7.6–11.4 litres of Laykold Deep Patch and mix evenly with a mechanical mixer.

Depressions/hollows greater than 18 mm:

Depressions greater than 18 mm in depth must be levelled out in several stages to ensure optimal curing results.

Dry mix 19 litres of quartz sand (grain size up to 0.25 mm) with 3.8 litres of Portland cement. Then add 7.6–11.4 litres of Laykold Deep Patch and mix evenly with a mechanical mixer.

# Installation of the Laykold Systems

## Installing the posts and upright components

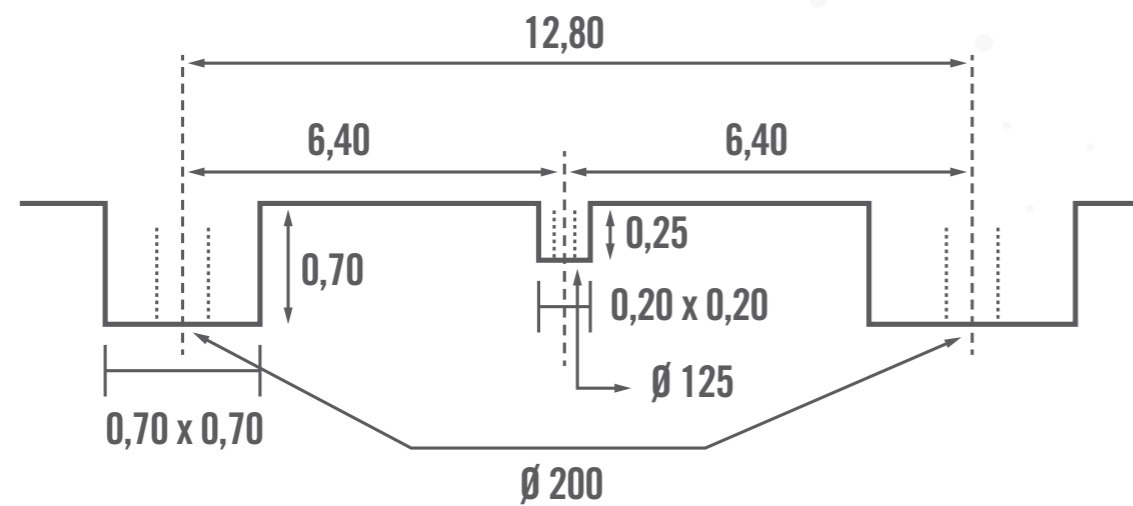
The slots for the tennis posts must be made before the asphalt is installed.

To ensure that the posts are sufficiently stable, the concrete foundations must be dimensioned as follows:

- Width 0.70 m x 0.70 m
- Depth: 0.70 m, i.e. approx. 0.7 m<sup>3</sup> for both posts
- Depth of central anchor: 0.20 m x 0.20 m x 0.25 m

The holes must have a square cross section and vertical walls. The foundation should be wider at the bottom than at the top so that it cannot tilt.

Concrete dosage: 300 kg cement per m<sup>3</sup>, slot to be made using a piece of PVC tubing (Ø 200 mm). It is essential to remove the PVC tubing before the concrete has fully cured. Before installing the asphalt, make sure that the slots have been covered with a geotextile material. The concrete must end 3 cm below the final level so that the cold mix can be applied.



## Foundation cross section



## Restrictions

- The minimum curing time for concrete and asphalt is 30 days.
- Do not apply the products to wet or moist sub-floors.
- Do not apply the products when the air humidity is very high.
- Do not apply the products to outgassing sub-floors.
- The minimum processing temperature is 10 °C.
- The maximum processing temperature is 54 °C.
- The residual humidity of the sub-floor must not exceed 4 %.
- Do not apply the products in adverse weather conditions (rain).
- The water used for mixing must be fresh.



Applying the Laykold Resurfacer



Applying the LM Topcoat



Color transition



Taping in preparation for line paint

# Recommended care and cleaning

## 1. General cleaning and maintenance

Laykold systems generally require minimal care and maintenance. The amount of work required depends heavily on the local environmental conditions and how intensively the court is used. The conditions can be divided into two categories:

### a. Low-maintenance environments

Environments with low levels of dirt and minimal dust. This means, for example, that indoor spaces are classed as low-maintenance areas.

#### a) Outdoor areas

Depending on the amount of surface dirt, the courts must be cleaned roughly once a week with a broom, air blower or wet broom. Foreign matter must be washed away with a water hose if possible.

#### b) Indoor areas

Depending on how intensively the court is used, indoor areas must be cleaned once every 2 to 4 weeks with a walk-behind (or similar) cleaning machine to get rid of any dust and dirt. Heavy soiling or stains must be removed with a floor scrubber machine with a soft brush/pad. Dirty water should be drained directly from the surface.

### b. Maintenance-intensive environments

Environments with significant levels of air pollution (such as dust, foliage and traffic fumes) are classed as high-maintenance environments; generally, these will be outdoor areas.

Use a water hose to remove foreign matter from the surface at least once a week to prevent pollutants from accumulating. If the surface gets dirty or stained, it can be cleaned with a floor scrubber machine with a soft brush/pad. When cleaning the surface, you should also use a biodegradable cleaning agent.

When using a cleaning agent, observe the manufacturer's specifications and rinse it off immediately with clean tap water.

## 2. Possible types of contamination

### a. Contamination caused by vegetation

Courts that have a lot of trees and vegetation nearby must be properly looked after to prevent excessive ingress of organic matter from plants (e.g. leaves and grass clippings). Certain constituents of foliage/plants will cause stains if they are left lying around for too long.

Furthermore, mould may form in these areas if they are allowed to combine with rainwater.

We recommend the following cleaning process:

- Sweep away foreign matter (such as foliage/plants) with a

broom.

- Wash the surface with clean water.
- Use a diluted sodium hypochlorite solution (liquid swimming pool chlorine); the dilution rate will depend on the extent of the mould infestation.
- Spread the solution over the mould-infested area with a broom and leave it to work for 10 to 15 minutes. Do not allow it to dry.
- Hose the surface down thoroughly with clean water to remove any residual solution.
- More heavily infested areas may require additional treatment. In particularly difficult cases, the surface will have to be sprayed with a powerful jet of water and treated with sodium hypochlorite. Other moss and algae killers are available from retail outlets.

### b. Contamination caused by organic animal matter

Prolonged exposure to bird droppings and worms will cause the Laykold surface to decompose. Therefore, these contaminants must be removed immediately with a mechanical scraper and/or a high-pressure cleaner. If the desired cleaning results are not achieved, you can use a residue-free, biodegradable cleaning agent (rinse it off with water).

If the organic animal matter cannot be removed, the system may start to blister or flake (with the damage extending as far as the asphalt). In this case, the defect will have to be repaired by a Laykold specialist company.



### c. Food and drink residues

We recommend wet cleaning the surface immediately. If any stains appear, use the same cleaning methods as for contamination caused by vegetation.

Treat chewing gum residues with a freeze spray and carefully remove them mechanically with a rubber scraper.

### d. Fat and oil residues

We recommend using a residue-free, organic cleaning agent to remove these contaminants. Several cleaning cycles may be required. After treating the area, rinse it with clean water.

### e. Signs of wear and tear

Only wear shoes with white and/or abrasion-resistant soles. People using the court should clean their shoes before stepping onto it so that no stones, twigs or other sharp objects can damage the surface. Certain soles may leave black marks on the surface. These marks can generally be removed by using a residue-free, biodegradable cleaning agent and a brush with rigid bristles. Marks caused by shoe soles will be more obvious on new surfaces.

Laykold Masters surfaces are resistant to normal racket contact. Nevertheless, if the surface receives heavy blows from a metal racket at a sharp angle, minor scratches may be caused. This type of damage is normally restricted to the upper layers and can be easily repaired. In this case, the defect should be repaired by a Laykold specialist company.



## Notes:

- We recommend that you test all cleaning methods and their effects on an inconspicuous area to make sure they are compatible before you start using them more generally.
- Do not use any solutions made from powdered calcium hypochlorite, as these will leave white residues behind on the surface once dry.
- Keep the product away from plants, animals and children, and wear protective clothing.
- Observe the local environmental regulations.
- Laykold surfaces must not be used on solvent-based products such as thinning agents and similar products.
- Avoid point loads such as metal chair legs, heavy trolleys/carts and stiletto heels.

## Retopping of acrylic coatings

After years of intensive game play and weathering, it is recommended to restore the original physical properties and appearance of the acrylic surface by retopping. Retopping is the process of coating of the topmost layer (top coat) on an existing acrylic coating that has been worn down.

The surface must be cleaned in advance with a high-pressure cleaner (120 bar and 30 cm distance nozzle to the surface of the flooring) in order to remove dirt. Chipped areas of the acrylic coating must be removed to ensure adhesion to the new retopped surface is guaranteed. Coarse dirt can be removed beforehand with a disc sander and fine sandpaper.

The surface should then be flooded with water and visible areas where the water pools together drawn in with standard marking spray. In order to compensate from these sinks, please refer to the section „Compensation of sinks“ (page 43).

If fine hairline cracks appear in the surface during a subsequent visual inspection, it is recommended to apply a layer of Acrylic Resurfacer. The application quantity is 0.40 kg/m<sup>2</sup> Acrylic Resurfacer (undiluted). The surface to be coated must be completely dry before application.

Then, as with a new installation, two layers of the top coat (Laykold Advantage Topcoat, Laykold Masters Topcoat) can be applied in the desired color as described in the system data sheet.



# Recommended tools

The following tools, equipment, machinery and consumables should be present on a construction site for the general application and installation of building measures using Laykold acrylic coatings. This list is by no means exhaustive and has been compiled based on in-house experience. It is to be considered a recommendation only.

The following tools for installation, mixing and emptying can be purchased from many common tool retailers.

## Mixing and emptying

MACHINES/TOOLS	SOURCE	QUANTITY/NUMBER
Handheld forced-action mixer with counter-rotating mixing tool	Collomix	1
Drum trolley (for 200 l drums)*	Polyplan	1
Drum stand (for 200 l drums)*	Polyplan	1
Drum tap (for 200 l drums) 2" *	Polyplan	1
Drum wrench*	Polyplan	1
Digital scale (load > 100 kg)	Polyplan	1
25 l bucket	Polyplan	4
Construction foil (rolled goods)	DIY store	1
Extension cable (min. 25 m)	DIY store	1
Cable drum (50 m)	DIY store	1
Cutter	Polyplan, DIY store	2

\*Only required when using drums.

[www.polyplan.com](http://www.polyplan.com)

## Installation

MACHINES/TOOLS	SOURCE	QUANTITY/NUMBER
Square-notch trowel	Polyplan	4
80 cm rubber squeegee with handle (50 durometer)	Polyplan	2
Extendable paint roller (50 cm wide)	Polyplan	2
Sheepskin roller	Polyplan	8
Smooth-edge metal scraper with extension	Polyplan	2
Broom (concrete finish)	Baumarkt	2
Masking tape (roll)	Baumarkt	10
Double-sided adhesive tool (with adjustable spacing)	Fachhändler	1
Spiked boots	Polyplan	4
Single-disc sander (Ø 380 mm); plus diamond grinding wheel	Fachhändler	1

[www.polyplan.com](http://www.polyplan.com)

## Separating and cleaning agents

MACHINES/TOOLS	SOURCE	QUANTITY/NUMBER
Xylene/toluene/solvent (25 l canister)		1
Polycomp PC 11-050 (Varsol) 25 l	Melos	1

## Surface preparation

MACHINES/TOOLS	SOURCE	QUANTITY/NUMBER
Outdoor broom	DIY store	1
Dustpan and brush	DIY store	1
Motorised handheld blower	Stihl	1
Duct tape (rolls)	Polyplan	12
Marking spray (3 colors)	DIY store	1
Chalk	DIY store	1
Tape measure (min. 50 m)	DIY store	2
Folding ruler	DIY store	2
Chalk line	Multitool	1

[www.polyplan.com](http://www.polyplan.com)

## Other

MACHINES/TOOLS	SOURCE	QUANTITY/NUMBER
Complete tool kit	DIY store	1
Angle grinder with flapwheel	DIY store	1
Fabric cleaning cloths (PACK)	DIY store	2
Personal protective equipment	DIY store	3
Powder fire extinguisher	DIY store	1
First-aid box	DIY store	1
Gloves	DIY store	12

## Classification: Court Pace

The ITF is the international tennis federation, founded in 1913 and controls the largest international tournaments. The ITF administers and regulates the game through 210 affiliated National Associations, together with six Regional Associations. The ITF is responsible for the Rules of Tennis, including the technical specifications for courts and equipment, and the running and enforcing of a joint anti-doping programme.  
(Source [www.itftennis.com](http://www.itftennis.com))

The ITF classifies floor systems based on Court Pace Rating (CPR). This test uses a special device to measure ball friction and vertical restitution of the ball from a surface. A ball is shot out of a cannon angled towards the floor, the speed and direction are measured before and after impact. The surface is assessed based upon the results.

Sand courts, or place with unbound mineral layer., are often class 1. Acrylic coatings are often between Class 2 to 4. Natural or artificial Grass courts are often in Class 4–5

Class 1: slow 0 to 29 (CPR)

Class 2: medium – slow 30 to 34 (CPR)

Class 3: medium 35 to 39 (CPR)

Class 4: medium – fast 40 to 44 (CPR)

Class 5: fast > 45 (CPR)

(Source [www.itftennis.com](http://www.itftennis.com))

# Technical data sheets

## Laykold® Concrete Primer

2C PUR adhesion promoter

This is a 2-component polyurethane-based adhesion promoter that is free of solvents and offers very good resistance to acids and alkalis. Laykold Concrete Primer is suitable for priming cementitious sub-floors, such as concrete and screed. Solvent can be added, but this is not necessary.

### Product specifications

<b>Density</b>	@ 23 °C	Component A: 1.00 ± 0.02 g/cm <sup>3</sup> Component B: 1.22 ± 0.02 g/cm <sup>3</sup>
<b>Viscosity</b>	@ 23 °C	Component A: 250 ± 100 mPas Component B: 140 ± 20 mPas
<b>Mixing ratio</b>	Component A : Component B	1 : 1
<b>Pot life</b>	@ 20 °C	30 ± 5 minutes
<b>Setting</b>	@ 20 °C	Approx. 2 hours
<b>Processing temperature</b>		At least 10 °C

### Processing specifications

All of component B must be poured into the container of component A while stirring. Both components must be mixed together slowly (at a speed of approx. 300 rpm) for 3 to 5 minutes. To prevent mixing errors, the mixture should be transferred to a clean container and briefly stirred again. The LM Concrete Primer is then applied using a lambskin roller, rubber squeegee or airless sprayer.

If the adhesion promoter is being diluted, the solvent must have evaporated fully before the next layer is applied over the top.

Although Laykold Concrete Primer is relatively insensitive to moisture, it is still important to keep it protected against moisture during curing. Moisture can cause the surface to blister, resulting in poorer adhesion.

The next layer must be applied within 48 hours. If this time is exceeded, the priming coat should be ground or reapplied.

### Safety warnings

If using the product in an enclosed space, ensure adequate ventilation or wear a respirator mask (with an A2 filter) for additional protection. Protective goggles and gloves must be worn when working with this product.

### Packaging

Component A: 9 kg  
Component B: 9 kg

### Storage

Provided they are kept at a cool and dry location inside sealed, unopened containers, the components can be stored for at least 6 months.

## Laykold® Deep Patch

acrylic cement modifier

This is a high strength acrylic cement modifier. An advantage of using Deep Patch is that it cures quickly making a hard, tough, and durable patch. Deep Patch does not contain asbestos, lead, or Mercury.

Basic Use: Deep Patch is designed for mixing with Portland cement and sand. It can be used over new or existing asphalt or concrete recreational surfaces. Deep Patch can also be used to fill cracks, and will not sink like elastomeric crack fillers.

### Product specifications

<b>Mixing ratio</b>		see table
<b>Processing temperature</b>		10 °C – 54 °C

### Processing specifications

The surface upon which Deep Patch is to be applied must be free of dirt, loose and flaking paint, vegetation, chemical or oily residues or any other substances that might inhibit good adhesion. Mechanically roughening the area will aid in adhesion, and should be done if the area is too smooth. Do not mix more material than can be placed in 15 minutes. A trowel or straight edge should be used to apply material. Should the material become stiff while working, dip tool in clean water for easier working. Edges of the patch should always be "feathered" so there is a smooth transition at the edge of the patch. It is sometimes necessary to use a coat of Acrylic Resurfacer mix to blend in the patch. Patches filled with Deep Patch must be allowed to thoroughly cure prior to applying the next coating application. Cure time depends on the depth of the patch, and may take up to 24 hours.

### Safety warnings

Smoking and naked lights are strictly prohibited while working with the product. Enclosed spaces should be adequately ventilated while working with the product. In addition, we recommend wearing protective goggles and gloves. In the event of contact with the skin or eyes, wash the affected areas thoroughly with soap and water.

If symptoms persist, seek medical attention.

### Packaging

20 kg bucket

### Storage

Provided it is kept at a cool and dry location inside sealed, unopened containers, the product can be stored for at least 12 months.

## Laykold® Acrylic Basecoat

### 1C acrylic emulsion

This is a 100% acrylic-based emulsion blended with selected fibers and fillers to use for smoothing rough pavements. Laykold Acrylic Basecoat does not contain asbestos, Lead, or Mercury.

Basic Use: Laykold Acrylic Basecoat when combined with silica sand and Portland cement is designed as an acrylic filler (resurfacer) coat for use over new or existing asphalt and properly prepared concrete surfaces. Its high filling properties make it especially suitable for resurfacing old, uneven asphalt surfaces.

#### Product specifications

<b>Density</b>	@ 23 °C; 50 % humidity	1.35 ± 0.05 g/cm <sup>3</sup>
<b>Viscosity</b>	@ 20 °C	40,000 ± 5,000 mPas
<b>Setting</b>		2–4 hours
<b>Mixing ratio (with water)</b>	Acrylic Basecoat : Water Acrylic Basecoat : Sand Acrylic Basecoat : Cement	1 : 0.4 – 0.6 1 : 2.5 kg 1 : 0.9 kg
<b>Processing temperature</b>		10 °C – 54 °C

#### Processing specifications

The existing surface must be cleaned thoroughly before the product is applied. It must also be undamaged, dry and free from oils and other adhesion inhibitors. Any flaking and peeling, holes and other forms of substrate damage must be repaired. Similarly, all unevenness must be levelled out before starting the surface treatment.

All components must be mixed together slowly (at a speed of approx. 300 rpm) for 3 to 5 minutes. The amount and size of the sand may be varied to achieve different textures and filling properties. Larger sand will have greater filling properties.

The material must be applied with a flat rubber squeegee. The finished surface shall have a uniform appearance and be free of ridges and tool marks. If more than 1 application is applied, the 2nd application should be pulled at a 90° angle to the 1st application.

#### Safety warnings

Smoking and naked lights are strictly prohibited while working with the product. Enclosed spaces should be adequately ventilated while working with the product. In addition, we recommend wearing protective goggles and gloves. In the event of contact with the skin or eyes, wash the affected areas thoroughly with soap and water.

If symptoms persist, seek medical attention.

#### Packaging

20 kg bucket

#### Storage

Laykold Acrylic Basecoat should be kept dry, cool and in original packaging. Laykold Acrylic Basecoat has a shelf life of 1 year.

## Laykold® Acrylic Resurfacer

### 1C acrylic emulsion

This is a highly concentrated one-component emulsion with a 100% acrylic base. When mixed with quartz sand and water, Acrylic Resurfacer can be used as a levelling compound for new or existing asphalt or concrete sub-floors.

#### Product specifications

<b>Density</b>	@ 23 °C; 50 % humidity	1.28 ± 0.02 g/cm <sup>3</sup>
<b>Viscosity</b>	@ 20 °C	48,000 ± 5,000 mPas
<b>Mixing ratio</b>	Acrylic Resurfacer : Water Acrylic Resurfacer : Sand	1 : 0.7 (% by weight) 1 : 1.0–1.5 kg
<b>Tensile strength</b>	@ 23 °C; 50 % humidity	5.4 N/mm <sup>2</sup>
<b>Elongation</b>	@ 23 °C; 50 % humidity	9.5 %
<b>Processing temperature</b>		10 °C – 54 °C

#### Processing specifications

Melos GmbH recommends having a water-impermeable asphalt or concrete base layer to serve as a suitable sub-floor. The existing surface must be cleaned thoroughly before the product is applied. It must also be undamaged, dry and free from oils and other adhesion inhibitors. Any flaking and peeling, holes and other forms of substrate damage must be repaired. Similarly, all unevenness must be levelled out before starting the surface treatment. Please also observe the sub-floor properties and condition recommended for Laykold systems.

#### Safety warnings

Smoking and naked lights are strictly prohibited while working with the product. Enclosed spaces should be adequately ventilated while working with the product. In addition, we recommend wearing protective goggles and gloves. In the event of contact with the skin or eyes, wash the affected areas thoroughly with soap and water.

If symptoms persist, seek medical attention.

#### Packaging

25 kg bucket

#### Storage

Laykold Acrylic Resurfacer should be stored in a cool and dry location. Provided that it is kept under the specified conditions inside unopened original containers, it has a storage life of 6 months. If Laykold Acrylic Resurfacer is stored for longer than this, you must check that the product is still fit for use before using it. Once opened, buckets should be carefully resealed and protected against moisture. The remaining contents should be used up swiftly.

## Laykold® ColorCoat Concentrate

### 1C acrylic emulsion

This is a wear-resistant, one-component emulsion that has a 100% acrylic base and is made from high-quality pigments and polymers. ColorCoat Concentrate can be used as a hard court wear layer for tennis and multi-sports facilities.

#### Product specifications

<b>Density</b>	@ 23 °C; 50 % humidity	1.24 ± 0.05 g/cm <sup>3</sup>
<b>Viscosity</b>	@ 20 °C	35,000 ± 5,000 mPas
<b>Mixing ratio (with water)</b>	Textured top coat ColorCoat Concentrate : Water	1 : 0.5
	ColorCoat Concentrate : Sand	1 : 0.5–0.8 kg
	Top coat sealant (optional): ColorCoat Concentrate : Water	1 : 1
<b>Tensile strength</b>	@ 23 °C; 50 % humidity	4 N/mm <sup>2</sup>
<b>Elongation</b>	@ 23 °C; 50 % humidity	18 %
<b>Processing temperature</b>		10 °C – 54 °C

#### Processing specifications

The existing surface must be undamaged, dry and free from oils and other adhesion inhibitors. Any flaking and peeling, holes and other forms of damage must be repaired. Similarly, all unevenness must be levelled out before starting the surface treatment. The material must be applied with a flat rubber squeegee. Please also observe the sub-floor properties and condition recommended for Laykold systems.

#### Safety warnings

Smoking and naked lights are strictly prohibited while working with the product. Enclosed spaces should be adequately ventilated while working with the product. In addition, we recommend wearing protective goggles and gloves. In the event of contact with the skin or eyes, wash the affected areas thoroughly with soap and water.

If symptoms persist, seek medical attention.

#### Packaging

25 kg bucket

#### Storage

Laykold ColorCoat Concentrate should be stored in a cool and dry location. Provided that it is kept under the specified conditions inside unopened original containers, it has a storage life of 6 months. If Laykold ColorCoat Concentrate is stored for longer than this, you must check that the product is still fit for use before using it. Once opened, buckets should be carefully resealed and protected against moisture. The remaining contents should be used up swiftly.

## Laykold® Advantage

### 1C acrylic emulsion

This is a wear-resistant, prefilled, one-component emulsion that has a 100% acrylic base and is made from high-quality pigments and polymers. Advantage can be used as a hard court wear layer for tennis and multi-sports facilities.

#### Product specifications

<b>Density</b>	@ 23 °C; 50 % humidity	1.40 ± 0.05 g/cm <sup>3</sup>
<b>Viscosity</b>	@ 20 °C	35,000 ± 5,000 mPas
<b>Mixing ratio</b>	Laykold Masters Advantage : Water	5 : 1
<b>Tensile strength</b>	@ 23 °C; 50 % humidity	1.61 N/mm <sup>2</sup>
<b>Elongation</b>	@ 23 °C; 50 % humidity	6.5 %
<b>Processing temperature</b>		10 °C – 54 °C
<b>Setting</b>		2–4 hours

#### Processing specifications

The existing surface must be undamaged, dry and free from oils and other adhesion inhibitors. Any flaking and peeling, holes and other forms of damage must be repaired. Similarly, all unevenness must be levelled out before starting the surface treatment. The material must be applied with a flat rubber squeegee. Please also observe the sub-floor properties and condition recommended for Laykold systems.

#### Safety warnings

Smoking and naked lights are strictly prohibited while working with the product. Enclosed spaces should be adequately ventilated while working with the product. In addition, we recommend wearing protective goggles and gloves. In the event of contact with the skin or eyes, wash the affected areas thoroughly with soap and water.

If symptoms persist, seek medical attention.

#### Packaging

25 kg bucket

#### Storage

Laykold Advantage should be stored in a cool and dry location. Provided that it is kept under the specified conditions inside unopened original containers, it has a storage life of 6 months. If Laykold Advantage is stored for longer than this, you must check that the product is still fit for use before using it. Once opened, buckets should be carefully resealed and protected against moisture. The remaining contents should be used up swiftly.

## Laykold® Masters GEL

### 2K-PUR Coating

is a solvent-free, 2-component, polyurethane based coating.

#### Product specifications

<b>Density</b>	@ 23 °C Part A; @ 23 °C Part B	0.9 g/cm <sup>3</sup> ; 1.15 g/cm <sup>3</sup>
<b>Viscosity</b>	@ 23 °C	4174 mPas
<b>Mixing ratio</b>	Part A : Part B (by weight)	100 : 148
<b>Pot life</b>	@ 23 °C; 50 % relative humidity	35 minutes
<b>Touch dry</b>	@ 23 °C; 50 % relative humidity	12–16 hours
<b>Subsequent coating</b>	@ 23 °C; 50 % relative humidity	24 hours
<b>Full cure</b>	@ 23 °C; 50 % relative humidity	72 hours
<b>Processing temperature</b>		mind. 10 °C – 30 °C (3 °C above dew point)

#### Processing specifications

Mix the two components of Laykold GEL by adding the B component to the A component and mixing for a minimum of three minutes. The material should then be poured into a separate clean container and mixed for a further 3 minutes.

Apply the Laykold GEL to the substrate using a squeegee.

#### Safety warnings

Never use Laykold GEL near flames or open light. Smoking is also strictly prohibited during the application process. Wear approved eye protection and gloves during application. Adequate ventilation or use of a respirator is required in enclosed spaces.

#### Packaging

Part A: 5.6 kg pail  
Part B: 8.3 kg pail

#### Storage

Store Laykold GEL in a dry and cool place but not below 10 °C. Shelf life of product stored in original unopened containers is 24 months.

## Laykold® Masters Wearcoat

### 2K-PUR Coating

is a solvent-free, 2-component, polyurethane based coating.

#### Product specifications

<b>Density</b>	@ 23 °C	1.09 g/cm <sup>3</sup>
<b>Viscosity</b>	@ 23 °C	1702 mPas
<b>Mixing ratio</b>	Part A : Part B (by weight)	2.9 : 1
<b>Pot life</b>	@ 23 °C; 50 % relative humidity	40–60 minutes
<b>Touch dry</b>	@ 23 °C; 50 % relative humidity	8 hours
<b>Subsequent coating</b>	@ 23 °C; 50 % relative humidity	8–24 hours
<b>Full cure</b>	@ 23 °C; 50 % relative humidity	72 hours
<b>Processing temperature</b>		mind. 10 °C – 30 °C (3 °C above dew point)

#### Processing specifications

Mix the two components of Laykold Wearcoat by adding the B component to the A component and mixing for a minimum of three minutes. The material should then be poured into a separate clean container and mixed for a further 3 minutes.

Apply the Laykold Wearcoat to the substrate using a squeegee.

#### Safety warnings

Never use Laykold Wearcoat near flames or open light. Smoking is also strictly prohibited during the application process. Wear approved eye protection and gloves during application. Adequate ventilation or use of a respirator is required in enclosed spaces.

#### Packaging

Part A: 13 kg pail  
Part B: 4.5 kg pail

#### Storage

Store Laykold Wearcoat in a dry and cool place but not below 10 °C. Shelf life of product stored in original unopened containers is 24 months.

## Laykold® Masters FlexFill

### 1C acrylic latex emulsion

This is an adhesive primer for new asphalt base courses. Laykold Masters FlexFill contains no asbestos, lead or mercury.

#### Product specifications

<b>Viscosity</b>	@ 23 °C; 50 % humidity	40,000 ± 5,000 mPas
<b>Mixing ratio</b>	Laykold Masters FlexFill : Water	5 : 1
<b>Tensile strength (average)</b>	23 °C; 50 % humidity	Approx. 0.94 N/mm <sup>2</sup>
<b>Elongation</b>	23 °C; 50 % humidity	24.7 %
<b>Processing temperature</b>		10 °C – 54 °C
<b>Setting</b>		2–4 hours

#### Processing specifications

Melos GmbH recommends having a water-impermeable concrete base layer to serve as a suitable sub-floor. The existing surface must be cleaned thoroughly before the product is applied. It must also be undamaged, dry and free from oils and other adhesion inhibitors. Any flaking and peeling, holes and other forms of substrate damage must be repaired. Similarly, all unevenness must be levelled out before starting the surface treatment. Please also observe the sub-floor properties and condition recommended for Laykold systems.

#### Safety warnings

Smoking and naked lights are strictly prohibited while working with the product. Enclosed spaces should be adequately ventilated while working with the product. In addition, we recommend wearing protective goggles and gloves. In the event of contact with the skin or eyes, wash the affected areas thoroughly with soap and water.

If symptoms persist, seek medical attention.

#### Packaging

25 kg bucket

#### Storage

Laykold Masters FlexFill should be stored in a cool and dry location. Provided that it is kept under the specified conditions inside unopened original containers, it has a storage life of 6 months. If Laykold Masters FlexFill is stored for longer than this, you must check that the product is still fit for use before using it. Once opened, buckets should be carefully resealed and protected against moisture. The remaining contents should be used up swiftly.

## Laykold® Masters Filler

### 1C acrylic latex emulsion

This is a prefilled, single-component acrylic latex emulsion. Laykold Masters Filler can be used as a filler layer before applying a Laykold Masters Topcoat. Laykold Masters Filler contains no asbestos, lead or mercury.

#### Product specifications

<b>Viscosity</b>	@ 23 °C; 50 % humidity	25,000 ± 5,000 mPas
<b>Mixing ratio</b>	Laykold Masters Filler : Water	5 : 1
<b>Processing temperature</b>		10 °C – 54 °C
<b>Setting</b>		2–4 hours

#### Processing specifications

Prior to application, make sure that the existing surface is undamaged, dry and free from oils and other adhesion inhibitors. Any flaking and peeling, holes and other forms of substrate damage must be repaired. Similarly, all unevenness must be levelled out before starting the surface treatment. Please also observe the sub-floor properties and condition recommended for Laykold systems.

When water is added, the materials must be mixed together to create a homogeneous mixture. The product must be applied using a soft rubber squeegee.

#### Safety warnings

Smoking and naked lights are strictly prohibited while working with the product. Enclosed spaces should be adequately ventilated while working with the product. In addition, we recommend wearing protective goggles and gloves. In the event of contact with the skin or eyes, wash the affected areas thoroughly with soap and water.

If symptoms persist, seek medical attention.

#### Packaging

25 kg bucket

#### Storage

Laykold Masters Filler should be stored in a cool and dry location. Provided that it is kept under the specified conditions inside unopened original containers, it has a storage life of 6 months. If Laykold Masters Filler is stored for longer than this, you must check that the product is still fit for use before using it. Once opened, buckets should be carefully resealed and protected against moisture. The remaining contents should be used up swiftly.

## Laykold® Masters Topcoat

### 1C acrylic emulsion

This is a wear-resistant, prefilled, one-component emulsion that has a 100 % acrylic base and is made from high-quality pigments and polymers, resulting in a color coating material that is very easy to apply. Laykold Masters Topcoat can be used as a hard court wear layer for tennis and multi-sports facilities.

#### Product specifications

<b>Density</b>	@ 23 °C; 50 % humidity	1.40 ± 0.05 g/cm <sup>3</sup>
<b>Viscosity</b>	@ 20 °C	35,000 ± 5,000 mPas
<b>Mixing ratio</b>	Laykold Masters Topcoat : Water	5 : 1
<b>Tensile strength</b>	Average	1.61 N/mm <sup>2</sup>
<b>Elongation</b>	@ 23 °C; 50 % humidity	6.5 %
<b>Processing temperature</b>		10 °C – 54 °C
<b>Setting</b>		2–4 hours

#### Processing specifications

Melos GmbH recommends having a water-impermeable asphalt or concrete base layer to serve as a suitable sub-floor. The existing surface must be cleaned thoroughly before the product is applied. It must also be undamaged, dry and free from oils and other adhesion inhibitors. Any flaking and peeling, holes and other forms of substrate damage must be repaired. Similarly, all unevenness must be levelled out before starting the surface treatment. Please also observe the sub-floor properties and condition recommended for Laykold systems.

#### Safety warnings

Smoking and naked lights are strictly prohibited while working with the product. Enclosed spaces should be adequately ventilated while working with the product. In addition, we recommend wearing protective goggles and gloves. In the event of contact with the skin or eyes, wash the affected areas thoroughly with soap and water.

If symptoms persist, seek medical attention.

#### Packaging

25 kg bucket

#### Storage

Laykold Masters Topcoat should be stored in a cool and dry location. Provided that it is kept under the specified conditions inside unopened original containers, it has a storage life of 6 months. If Laykold Masters Topcoat is stored for longer than this, you must check that the product is still fit for use before using it. Once opened, buckets should be carefully resealed and protected against moisture. The remaining contents should be used up swiftly.

## Laykold® Masters Topcoat Finish

### 1C acrylic emulsion

This is a wear-resistant, one-component emulsion that has a 100% acrylic base and is made from high-quality pigments and polymers. Masters Topcoat Finish can be used as a hard court Top coat sealant for tennis and multi-sports facilities.

#### Product specifications

<b>Density</b>	@ 23 °C; 50 % humidity	1.24 ± 0.05 g/cm <sup>3</sup>
<b>Viscosity</b>	@ 20 °C	35,000 ± 5,000 mPas
<b>Mixing ratio</b>	Masters Topcoat Finish : Water	1 : 1
<b>Tensile strength</b>	@ 23 °C; 50 % humidity	4 N/mm <sup>2</sup>
<b>Elongation</b>	@ 23 °C; 50 % humidity	18 %
<b>Processing temperature</b>		10 °C – 54 °C

#### Processing specifications

The existing surface must be undamaged, dry and free from oils and other adhesion inhibitors. Any flaking and peeling, holes and other forms of damage must be repaired. Similarly, all unevenness must be levelled out before starting the surface treatment. The material must be applied with a flat rubber squeegee. Please also observe the sub-floor properties and condition recommended for Laykold systems.

#### Safety warnings

Smoking and naked lights are strictly prohibited while working with the product. Enclosed spaces should be adequately ventilated while working with the product. In addition, we recommend wearing protective goggles and gloves. In the event of contact with the skin or eyes, wash the affected areas thoroughly with soap and water.

If symptoms persist, seek medical attention.

#### Packaging

25 kg bucket

#### Storage

Laykold Masters Topcoat Finish should be stored in a cool and dry location. Provided that it is kept under the specified conditions inside unopened original containers, it has a storage life of 6 months. If Laykold Masters Topcoat Finish is stored for longer than this, you must check that the product is still fit for use before using it. Once opened, buckets should be carefully resealed and protected against moisture. The remaining contents should be used up swiftly.



## Laykold® Masters Adhesive

### 2C PUR adhesive

This is a thixotropic, two-component PUR adhesive. Its main field of application is the bonding of prefabricated strips made from technical rubber granulate/EPDM. Very good bonding properties are achieved on pretreated concrete, asphalt and wood.

#### Product specifications

<b>Density</b>	@ 23 °C; 50 % humidity	1.55 ± 0.03 g/m <sup>3</sup>
<b>Viscosity</b>	@ 23 °C; 50 % humidity	thixotrop
<b>Mixing ratio</b>	A : B (parts by weight)	100 : 14
<b>Wet life</b>		70–110 minutes
<b>Processing temperature</b>		10 °C – 30 °C

#### Processing specifications

Melos GmbH recommends having a water-impermeable asphalt or concrete base layer to serve as a suitable sub-floor. The existing surface must be cleaned thoroughly before the product is applied. It must also be undamaged, dry and free from oils and other adhesion inhibitors. Any flaking and peeling, holes and other forms of substrate damage must be repaired. Similarly, all unevenness must be levelled out before starting the surface treatment.

All of component B must be poured into the container of component A while stirring. Both components must be mixed together slowly (at a speed of approx. 300 rpm) for 3 to 5 minutes. Please also observe the sub-floor properties and condition recommended for Laykold systems.

#### Safety warnings

Smoking and naked lights are strictly prohibited while working with the product. Enclosed spaces should be adequately ventilated while working with the product. In addition, we recommend wearing protective goggles and gloves. In the event of contact with the skin or eyes, wash the affected areas thoroughly with soap and water.

If symptoms persist, seek medical attention.

#### Packaging

Part A: 17 kg container

Part B: 2.4 kg container

#### Storage

Provided it is kept at a cool and dry location inside sealed, unopened containers, the product can be stored for at least 6 months.

## Laykold® Masters Sealer

### 2C PUR sealing compound

This is a two-component, polyurethane-based sealing compound that is free of solvents. One key application of Laykold Masters Edge Sealer is the sealing of pores in rubber granulate mats.

#### Product specifications

<b>Density</b>	@ 23 °C; 50 % humidity	1.29 ± 0.03 g/cm <sup>3</sup>
<b>Viscosity</b>	@ 23 °C; 50 % humidity	Thixotrop
<b>Mixing ratio</b>	A : B by weight	5 : 1
<b>Setting</b>		5–6 hours
<b>Processing temperature</b>		10 °C – 30 °C

#### Processing specifications

Prior to application, make sure that the existing surface is undamaged, dry and free from oils and other adhesion inhibitors. When working with the product, make sure that the materials are mixed together homogeneously. The product must be applied using a flat rubber squeegee.

#### Safety warnings

Protective goggles and gloves must be worn when working with this product. If using the product in an enclosed space, ensure adequate ventilation or wear a respirator mask for additional protection.

#### Packaging

Component A: 16.5 kg container

Component B: 3.3 kg container

#### Storage

Provided it is kept at a cool and dry location inside sealed, unopened containers, the product can be stored for at least 6 months.

## Laykold® Masters Bond Kote

### 1C latex primer

This is a single-component, latex emulsion adhesive primer. It is mainly used for bonding glass fibre fabric to prefabricated rubber mats.

#### Product specifications

<b>Density</b>	@ 23 °C; 50 % humidity	1.02 ± 0.05 g/cm <sup>3</sup>
<b>Viscosity</b>	@ 20 °C	4,000 ± 500 mPas
<b>Tensile strength</b>	@ 23 °C; 50 % humidity	3.66 N/mm <sup>2</sup>
<b>Elongation</b>	@ 23 °C; 50 % humidity	498.3 %
<b>Setting</b>		2–4 hours
<b>Processing temperature</b>		10 °C – 54 °C

#### Processing specifications

Prior to application, make sure that the existing surface is undamaged, dry and free from oils and other adhesion inhibitors. Any flaking and peeling, holes and other forms of damage must be repaired. Please also observe the sub-floor properties and condition recommended for Laykold systems.

#### Safety warnings

Smoking and naked lights are strictly prohibited while working with the product. Enclosed spaces should be adequately ventilated while working with the product. In addition, we recommend wearing protective goggles and gloves. In the event of contact with the skin or eyes, wash the affected areas thoroughly with soap and water.

If symptoms persist, seek medical attention.

#### Packaging

16 kg bucket

#### Storage

Laykold Masters Bond Kote should be stored in a cool and dry location. Provided that it is kept under the specified conditions inside unopened original containers, it has a storage life of 6 months. If Laykold Masters Bond Kote is stored for longer than this, you must check that the product is still fit for use before using it. Once opened, buckets should be carefully resealed and protected against moisture. The remaining contents should be used up swiftly.

## Laykold® Line Prime

### 1C acrylic line marking paint

This is an adhesive primer with a 100% acrylic base with a clear finish once cured. It is used prior to applying Laykold Line Paint to achieve sharp line contours by sealing the gaps between the masking tape and the surface covering.

#### Product specifications

<b>Setting</b>		10–15 minutes
<b>Processing temperature</b>		10 °C – 54 °C

#### Processing specifications

The previously applied acrylate coating should be left to cure for at least 24 hours before applying Laykold Line Prime. Laykold Line Prime must be mixed thoroughly prior to use. Do not add any water at all. We recommend applying it with a high-quality paint roller.

#### Safety warnings

Smoking and naked flames are strictly prohibited while working with the product. Enclosed spaces should be adequately ventilated while working with the product. In addition, we recommend wearing protective goggles and gloves. In the event of contact with the skin or eyes, wash the affected areas thoroughly with soap and water. If symptoms persist, seek medical attention.

#### Packaging

5 kg bucket

#### Storage

Laykold Line Prime should be stored in a cool, dry, frost-free place. Provided that it is kept under the specified conditions inside unopened original containers, it has a storage life of 6 months. If Laykold Line Prime is stored for longer than this, you must check that the product is still fit for use before using it. Once opened, buckets should be carefully resealed and protected against moisture. The remaining contents should be used up as quickly as possible.

## Laykold® Line Paint

### 1C acrylic line marking paint

This is a water-based and solvent-free acrylic emulsion. Its main area of application is the marking of lines on Laykold coatings.

#### Product specifications

<b>Viscosity</b>	@ 23 °C; 50 % humidity	30,000 ± 5,000 mPas
<b>Processing temperature</b>		10 °C – 54 °C
<b>Setting</b>		2–4 hours

#### Processing specifications

The previously applied acrylate coating should be left to cure for at least 24 hours before applying Laykold Line Paint. Laykold Line Paint must be mixed thoroughly prior to use. Do not add any water at all. We recommend applying it with a high-quality paint roller.

#### Safety warnings

Smoking and naked lights are strictly prohibited while working with the product. Enclosed spaces should be adequately ventilated while working with the product. In addition, we recommend wearing protective goggles and gloves. In the event of contact with the skin or eyes, wash the affected areas thoroughly with soap and water.

If symptoms persist, seek medical attention.

#### Packaging

5 kg bucket

#### Storage

Laykold Line Paint should be stored in a cool and dry location. Provided that it is kept under the specified conditions inside unopened original containers, it has a storage life of 6 months. If Laykold Line Paint is stored for longer than this, you must check that the product is still fit for use before using it. Once opened, buckets should be carefully resealed and protected against moisture. The remaining contents should be used up swiftly.

# Invitation to tender texts

## Invitation to tender text for sub-floor

ITEM	QUANTITY	SCOPE OF SUPPLY AND SERVICES	UNIT PRICE	TOTAL
1	m <sup>2</sup>	<p><b>Gravel base layer</b> Base layer without binder – levelling layer Base layer, without binder, to be created acc. to DIN 18035-6:2014-12:</p> <p>Material: Base layer made of gravel Grain size: 0/32 mm Grading: Well graded Frost resistance: F4 Grain fraction d &lt;0.063 mm, in installed state: &lt; 7 % by weight Layer thickness: 200 mm Modulus of deformation EV2: &gt; 60 N/mm<sup>2</sup> Ratio EV2/EV1: &lt;2.5 Water infiltration rate: &gt; 720 mm/h Deviation from nominal height: &lt;+- 20 mm Flatness deviation: &lt; 12 mm Distance between measuring points: 4 m</p> <p>The following work is included as part of this item: any coarse grain accumulations (clusters) or depressions in the base layer must be filled in with the same material – but using a grain size of 2/8 mm – to ensure that the flatness requirements are met. The levelling layer will not be remunerated separately and is included in the price.</p>	€	€
2	m <sup>2</sup>	<p><b>Double asphalt base layer</b> Bound lower base layer to be installed using the hot mix process to create a water-impermeable surface that meets the increased requirements acc. to DIN 18035-6:2014-12:</p> <p>Asphalt type: AC 11 BN / AC 16 TL Binder type: 50/70 Thickness: &gt; 40 mm Degree of compaction: &gt; 95 % Flatness under 4 m straight-edge: 4 m &gt; 6 mm</p> <p>Bound upper base layer to be installed using the hot mix process to create a water-impermeable surface that meets the increased requirements acc. to DIN 18035-6:2014-12:</p> <p>Asphalt type: AC 5 DL / AC 8 DL Binder type: 50/70 Thickness: &gt; 25 mm Degree of compaction: &gt; 95/97 % Flatness under 4 m straight-edge: 4 m &lt; 6 mm</p> <p>Includes professional forming of the joints between the individual strips of asphalt. In all other respects, the following requirements apply: DIN 18035-6:2014-12, Tables 4 and 5. The work of joining the asphalt to borders will not be remunerated separately and is included in the price.</p>	€	€

## Invitation to tender text for Laykold ColorCoat

Preliminary technical remark

Acrylate emulsion starting material to be environmentally tested acc. to DIN 18035-7 with regard to the migration of certain elements.

PROPERTIES	UNIT	VALUE	TEST ACC. TO
<b>Thickness</b>	mm	≥ 1	DIN EN 1969
<b>Friction</b>		101 (dry) / 60 (wet)	EN 13036-4
<b>Abrasion resistance</b>	g	1.02	EN ISO 5470-1
<b>ITF coefficient of restitution</b>		0.79	ITF CS 01 / 02
<b>ITF coefficient of friction</b>		0.68	ITF CS 01 / 02
<b>ITF Court Pace Rating</b>		35 (medium)	ITF CS 01 / 02

ITEM	QUANTITY	SCOPE OF SUPPLY AND SERVICES	UNIT PRICE	TOTAL
1	m <sup>2</sup>	<p><b>Supply and installation</b> of a water-impermeable, jointless tennis surface tested in accordance with DIN EN 14877. Upper layer to consist of acrylate emulsion with a minimum coat thickness of 1 mm.</p> <p>Area size: _____ m<sup>2</sup></p> <p>Color: _____</p>	€	€

Invitation to tender text for Laykold Advantage

Preliminary technical remark

Acrylate emulsion starting material to be environmentally tested acc. to DIN 18035-7 with regard to the migration of certain elements.

PROPERTIES	UNIT	VALUE	TEST ACC. TO
Thickness	mm	≥ 1	DIN EN 1969
Friction		101 (dry) / 60 (wet)	EN 13036-4
Abrasion resistance	g	1.02	EN ISO 5470-1
ITF coefficient of restitution		0.79	ITF CS 01 / 02
ITF coefficient of friction		0.68	ITF CS 01 / 02
ITF Court Pace Rating		35 (medium)	ITF CS 01 / 02

ITEM	QUANTITY	SCOPE OF SUPPLY AND SERVICES	UNIT PRICE	TOTAL
1	m <sup>2</sup>	<p><b>Supply and installation</b> of a water-impermeable, jointless tennis surface tested in accordance with DIN EN 14877. Upper layer to consist of acrylate emulsion with a minimum coat thickness of 1 mm.</p> <p>Area size: _____ m<sup>2</sup></p> <p>Color: _____</p>	€	€

Invitation to tender text for Laykold Masters Color

Preliminary technical remark

Acrylate emulsion starting material to be environmentally tested acc. to DIN 18035-7 with regard to the migration of certain elements.

PROPERTIES	UNIT	VALUE	TEST ACC. TO
Thickness	mm	≥ 1	DIN EN 1969
Friction		99 (dry) / 60 (wet)	EN 13036-4
Abrasion resistance	g	0.5	EN ISO 5470-1
ITF coefficient of restitution		0.79	ITF CS 01 / 02
ITF coefficient of friction		0.68	ITF CS 01 / 02
ITF Court Pace Rating		35 (medium)	ITF CS 01 / 02

ITEM	QUANTITY	SCOPE OF SUPPLY AND SERVICES	UNIT PRICE	TOTAL
1	m <sup>2</sup>	<p><b>Supply and installation</b> of a water-impermeable, jointless tennis surface tested in accordance with DIN EN 14877. Upper layer to consist of acrylate emulsion with a minimum coat thickness of 1 mm.</p> <p>Area size: _____ m<sup>2</sup></p> <p>Color: _____</p>	€	€

### Invitation to tender text for Laykold Masters 5

Preliminary technical remark

Acrylate emulsion starting material to be environmentally tested acc. to DIN 18035-7 with regard to the migration of certain elements.

PROPERTIES	UNIT	VALUE	TEST ACC. TO
Thickness	mm	5	DIN EN 1969
Impact absorption	%	14	DIN EN 14808
Vertical deformation	mm	0.5	DIN EN 14809
Vertical ball behaviour	%	98	DIN EN 12235
Angled ball behaviour		29 (slow)	DIN EN 13865
Friction		99 (dry) / 65 (wet)	EN 13036-4
Abrasion resistance	g	0.52	EN ISO 5470-1
Tensile strength	Mpa	0.65	DIN EN 12230
Elongation at break	%	60	DIN EN 12230

ITEM	QUANTITY	SCOPE OF SUPPLY AND SERVICES	UNIT PRICE	TOTAL
2	m <sup>2</sup>	<b>Supply and installation</b> of a water-impermeable, jointless tennis surface tested in accordance with DIN EN 14877. Upper layer to consist of acrylate emulsion with a minimum coat thickness of 1 mm.	€	€
	m <sup>2</sup>	<b>Supply and installation</b> of a prefabricated elastic mat with a layer thickness of 4 mm.	€	€
		Area size: _____ m <sup>2</sup>		
		Color: _____		

### Invitation to tender text for Laykold Masters 8

Preliminary technical remark

Acrylate emulsion starting material to be environmentally tested acc. to DIN 18035-7 with regard to the migration of certain elements.

PROPERTIES	UNIT	VALUE	TEST ACC. TO
Thickness	mm	8	DIN EN 1969
Impact absorption	%	23	DIN EN 14808
Vertical deformation	mm	0.8	DIN EN 14809
Vertical ball behaviour	%	103	DIN EN 12235
Angled ball behaviour		30 (medium)	DIN EN 13865
Friction		99 (dry) / 65 (wet)	EN 13036-4
Abrasion resistance	g	0.52	EN ISO 5470-1
Tensile strength	Mpa	1.81	DIN EN 12230
Elongation at break	%	53	DIN EN 12230

ITEM	QUANTITY	SCOPE OF SUPPLY AND SERVICES	UNIT PRICE	TOTAL
2	m <sup>2</sup>	<b>Supply and installation</b> of a water-impermeable, jointless tennis surface tested in accordance with DIN EN 14877. Upper layer to consist of acrylate emulsion with a minimum coat thickness of 1 mm.	€	€
	m <sup>2</sup>	<b>Supply and installation</b> of a prefabricated elastic mat featuring reinforcing fabric with a layer thickness of 7 mm.	€	€
		Area size: _____ m <sup>2</sup>		
		Color: _____		



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