

Enhancing Laykold Dry Film Formation



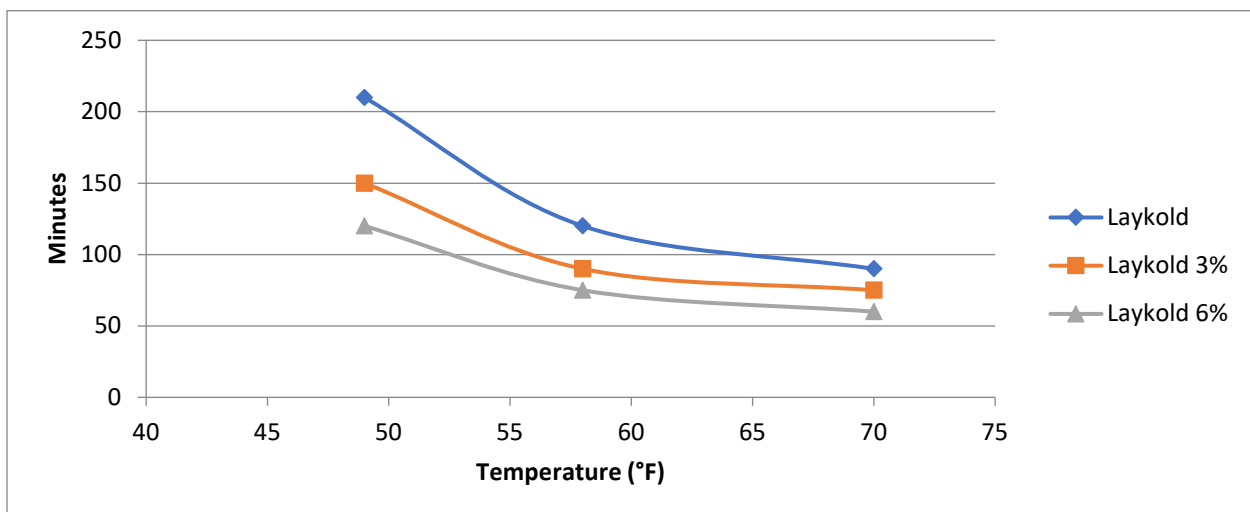
Laykold court surfacing products, like all acrylic emulsions, have a minimum film forming temperature. Laykold's minimum film forming temperature is 48°F. This is consistent with all competitive products and industry limitations that state acrylic coatings should not be applied when ambient and/or surface temperatures fall below 50°F on a 24-hours clock. However, as the industry's leader in chemistry and innovation, dry film formation times for Laykold acrylic coatings can be enhanced at lower temperatures (50-60°F) by adding Laykold Acrylic Deep Patch (ADP) to the batch mixture. This is beneficial for fringe season, shaded area, and indoor Laykold applications.

Dry film formation testing was conducted for standard batch mixed Laykold products, Laykold products batch mixed with 3% ADP added, and Laykold products batch mixed with 6% ADP added. In the cases where Acrylic Deep Patch (ADP) was added, the ADP replaced an equal amount of water in the batch mix. The results are as follows:

Typical Laykold Drying Times in Minutes			
Temperature (°F)	Laykold Standard Mix	Laykold - 3% ADP Added	Laykold - 6% ADP Added
70	90	75	60
58	120	90	75
49	210	150	120

*Note: Drying film formation is in minutes

**Note: All testing was conducted in a humidity chamber with 50% RH and no light





Conclusion:

When Laykold Acrylic Deep Patch (ADP) is properly added to a Laykold color or resurfacer batch mix (3% or 6%), it increases the rate of evaporation which enables polymer crosslinking (curing) to begin sooner in lower temperatures and/or shaded areas. However, if surface and/or ambient temperatures are expected to fall below 50°F at any time during a 24-hour period before or 48-hours after coatings application, Laykold acrylic coatings should NOT BE APPLIED. They may “feel dry” but the coating(s) will not form a water stable dry film and are likely to re-emulsify when exposed to water.

Laykold Acrylic Deep Patch Additive Rates Per Product			
Product	Unit Size	3% Deep Patch Additive	6% Deep Patch Additive
AR / NuSurf	55-gallons	1.75-gallons	3.50-gallons
CCC / CF	55-gallons	1.75-gallons	3.50-gallons
Advantage	30-gallons	0.95-gallons	1.90-gallons
LM Topcoat	5-gallons	0.16-gallons	0.32-gallons

For additional information, please visit www.laykold.com and www.sportgroup-techhub.com/laykold.