



Rekortan® M99 Installation Guidelines

Advanced Polymer Technology has prepared this installation guide to aid in the construction of the Rekortan® M99 World Athletics certified track system. Any references to consumptions are approximate, due to variations in site conditions and application techniques. Before starting work, the applicator must become familiar with the existing site conditions and all product procedures.

1. Surface Preparation

Prior to application, the existing surface must be thoroughly clean, sound, dry, and free of oils and other contaminants. Inspect the substrate thoroughly, to determine that it meets the requirements for surfacing. Repair any and all defects to substrate before starting installation.

For applications over asphalt, the asphalt shall cure a minimum of 14 days. For applications over concrete, the concrete shall cure a minimum of 28 days. Test for moisture before any installation. Surface shall meet the RH (Relative Humidity) standard level of dryness of 75% RH or less. If concrete substrate tests over 75% RH, the concrete should be shot blasted and a moisture mitigation must be applied.

It is recommended all concrete and asphalt surfaces be primed.

2. Materials and Description

Rekortan® M99 Full Pour- A 3-layer, 15mm, impermeable full pour track system. It consists of a self-leveling fluid applied polyurethane coat, an innovative central force-reduction middle layer, and a fluid applied, self-leveling full pour polyurethane top coat with a dense matrix of EPDM rubber granules. The minimum depth of the system shall be 15mm with the depth of the top-wearing layer a minimum of 4mm.

Primer

Rubber – Graded to meet specifications

Rekortan® two component, full pour polyurethane

Rekortan® two component, force reduction full pour polyurethane

Manufacturer Approved EPDM Rubber – Graded to meet specifications

3. Application

After Surface preparation and inspection:

Apply proper primer (concrete or asphalt) to substrate via spray or roller, at the rate of approx. 0.29 lbs/sy (0.16 kg/sm), do not puddle. Allow primer to dry to tack free before continuing surfacing. Do not allow primed surface to become contaminated by rain, dust, debris etc.

Note: Rekortan®/ Qualipur resins do not come proportioned; the A & B components must be properly weighed and mixed. Mix only the amount of resin that can be properly handled, transported and applied within the pot life limitations.

Mix Ratios A: B by weight of the total mix of Qualipur 5050 (A: B) 2.27: 1 (USA mix ratio)

Base Layer - Mix and apply Qualipur 5050 full pour as stated above. Mixing of the Rekortan® resins can be accomplished with proper drill and paddle, or with inline machinery. In either case, take care not to introduce air into the resin during the mixing procedure.

Mix the Qualipur 5050 (A&B) resin for a minimum of two minutes, transfer to another container, and mix again for 1 minute, transport to the track area, pour onto the surface, and spread with a notched trowel or squeegee. Meter material to meet consumption rate of 3.69 lbs/sy (2.00 kgs/sm), monitor coverage and



verify. Allow the resin to self-level, then broadcast to excess with rubber, use a flat shovel or machine spreader to completely cover all the resin. Apply rubber at approx. 7.01 lbs/sy (3.80 kgs/sm).

Note: After each layer has cured, it is recommended that a depth check is made to confirm minimum thickness levels have been achieved, make adjustments as necessary to meet requirements.

Force reduction layer – Allow base layer to cure and remove excess rubber granules.

Mix Ratios A: B by weight of the total mix of Qualipur 5050 SA (A: B) 2: 1 (USA mix ratio)

Mix the Qualipur 5050 SA resin (A&B) resin for a minimum of two minutes, transfer to another container, and mix again for 1 minute, transport to the track area, pour onto the surface and spread with a notched trowel or squeegee. Meter material to meet consumption rate of 5.51 lbs/sy (2.99 kgs/sm). Allow the full pour resin to self-level, and then broadcast to excess with rubber, use a flat shovel or machine spreader to completely cover the resin. Apply rubber at approx. 7.01 lbs/sy (3.80 kgs/sm).

Top Layer – Allow force reduction layer to cure and remove excess rubber granules. Using the same mix ratio for the Qualipur 5050 as stated above mix the Qualipur 5050 (A&B) resin for a minimum of two minutes, transfer to another container, and mix again for 1 minute, transport to the track area, pour onto the surface, and spread with a notched trowel or squeegee. Meter material to meet consumption rate of 5.51 lbs/sy (2.99 kgs/sm). Allow resin to self-level, then broadcast to excess with colored EPDM rubber, use a flat shovel or machine spreader to completely cover the resin. Apply rubber at approx. 7.72 lbs/sy (4.19 kgs/sm). Top layer shall meet minimum thickness of 4mm. Allow top layer to cure, and then remove all excess EPDM rubber.

COVERAGES – Actual coverages are dependent on many factors relative to the field application and job site conditions, the installer must assess these conditions prior to ordering materials. Allowances must be made for waste in mixing, pouring, and field conditions.

LIMITATIONS

- ~ Do not apply over damp surfaces or wet substrates
- ~ Do not apply to surfaces that don't meet acceptable standards
- ~ Minimum application and curing temperatures, 50 F and rising for Qualipur 5050 resin, and 60 F and rising for the Qualipur 5050 SA resin
- ~ Maximum substrate temperature, 104 F
- ~ Maximum moisture content in substrate, less than 75% RH
- ~ Substrate temperature must be a minimum of 4 degrees above the dew point
- ~ Do not apply during inclement weather or when it is anticipated. If in the opinion of the synthetic surfacing contractor, the weather or site conditions are detrimental to the proper installation of the surfacing materials, work shall be delayed until conditions are acceptable.

ADVANCED POLYMER TECHNOLOGY CORPORATION believes that the information herein to be true, accurate and reliable.