



Rekortan® BSS Installation Guidelines

Advanced Polymer Technology has prepared this installation guide to aid in the construction of the Rekortan® BSS 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® BSS - A 13mm, impermeable spray coat track system. The first layer consists of a black mat of rubber granules bound in Rekortan® polyurethane. The second layer is a seal coat using Qualipur two-component polyurethane and EPDM powdered rubber dust. The surface layer is pigmented polyurethane and colored EPDM granules, spray applied to provide a structural topcoat.

Primer

Base Mat Rubber – Graded to meet specifications

Rekortan® Binder - The binder shall be moisture-cured polyurethane that is compatible with the base mat rubber.

Powder Rubber – Graded to meet specifications

Rekortan® two component, full pour polyurethane

Manufacturer Approved Rubber – Graded to .5-1.5mm or .5-2mm

Rekortan® Structural Spray - The spray shall be a one component, pigmented, polyurethane and compatible with the rubber.

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.

After the primer has become tack-free, apply the following mixture (by weight) at an average thickness of 11mm. Mix the binder and granules until the rubber is thoroughly coated. Using 14.94 lbs/sy (8.11 kgs/sm) of rubber and 3.52 lbs/sy (1.91 kgs/sm) of Rekortan® binder. The mixed products shall then be applied using a specially designed paver at the consumption rate of approx. 18.46 lbs/sy (10.02 kgs/sm). Thickness shall be monitored regularly to ensure proper coverage.

Rekortan®

After base mat has cured and before it becomes contaminated, mix the two component Rekortan® resin and EPDM powder into a thixotropic mixture and apply to the base mat by means of spreading the material with a rubber squeegee to seal off the mat. The consumption rate of the two component Rekortan® resin is 2.19 lbs/sq (1.19 kgs/sm) and the EPDM powder is 1.00 lbs/sy (0.54 kgs/sm). The two component resin mix ratio is below.

Note: The Rekortan® full pour 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: Rekortan® 5050 ~ A:B ~ 2.27: 1

Allow sealed base mat to cure properly before application of spray coating.

60 % Rekortan® Structural Spray
40% EPDM granules

After the seal layer has cured and before it is contaminated, mix the structural spray and rubber until thoroughly coated. The mixture should be sprayed in two separate applications. Apply the second coat, in an opposite direction as to the first. The minimum application rate is 1.92 lbs/sy (1.04 kgs/sm) for the Rekortan® structural spray and 1.27 lbs/sy (0.69 kgs/sm) rubber. Apply specified amounts to achieve proper coverage.

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
- ~ 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.