

Talrak® Flexeal BAT

Cold applied self-adhesive Bituminous pre-formed, flexible waterproofing membrane with top aluminium foil



The Construction Alchemists

Description

Talrak® Flexeal BAT is a cold applied self-adhesive pre-formed, flexible waterproofing membrane which can be applied on metallic, concrete, masonry or any other mineral surfaces. It is made from synthetic latex modified bitumen-based composite. The top side of the membrane is laminated with a UV resistant aluminium foil which serves the dual purposes of providing reinforcement to the membrane as well as providing protection against UV exposure and weathering. The self-adhesive compound on the bottom side of the membrane is protected by a removable silicone foil.

Features & Benefits

- Cold applied, no torching is required
- Aluminium top foiled surface provides excellent solar reflectance
- Long lasting ductile properties
- Prevents water permeation and vapour transmission
- Good movement accommodation of the substrate

Primary Application

Talrak® Flexeal BAT is suitable for waterproofing weather exposed areas such as metallic surfaces, top of passenger coaches, top of locomotive coaches, garage roofs, balconies, and the like. Talrak® Flexeal BAT can be applied in new surfaces as well as for remedial repairs. It is not suited for waterproofing of the surfaces heated from the bottom

Technical properties

Properties	Typical Values	Test Standards
Average thickness	1.8mm ±0.1	-
Unit weight	2.3 kg/m ²	-
Thickness of aluminium lamination	150 - 200 microns	-
Dimensions of rolls	1 m x 20 m	-
Pliability test	Meets the requirements of IS1322 1993 Type 3	IS 13826 (Part 2) 1993
Storage sticking test	Meets the requirements of IS1322 1993 Type 3	IS 13826 (Part 3) 1993
Heat resistant test	Meets the requirements of IS1322 1993 Type 3	IS 13826 (Part 5) 1993
Water absorption	<2.0%	IS 13826 (Part 6) 1993
Breaking load	>13.5 N	-

Application Instructions

Substrate preparation

The substrate has to be clean, dry, even, and without sharp corners, ridges, gaps, or voids. It can be metallic or mineral substrate. Vertical connections such as protrusions pipes have to be mechanically fixed using edge profiles or metal hole strips which have to be sealed from the topside using a suited joint sealing compound in order to avoid water penetrating behind the membrane.

Priming

Primer is not required for metallic/plastic surfaces.

Primer is required only on concrete and masonry surfaces. Apply **Talrak® Flexeal BAT Primer** on the substrate and let it dry. Prime only the area which will be covered by the membrane in a particular working day. If not covered within 24 hours of the application of the primer, then the area needs to be re-primed. Application of the primer should be by a brush or roller at a rate of 300 to 400 ml/m² depending on the porosity of the surface.

Application

When cutting membranes always use a sharp knife. To avoid having the knife stick to the membrane wet the blade repeatedly. Avoid cutting the material when it has been exposed to heat or direct sunlight. Remove the backing paper after cutting the membrane. Cutting membranes to length is facilitated by laying a piece of wood or straight edge on top of the membrane along the course of the cut as a guide and cutting support.

Laying of membrane

Slowly and bit-by-bit peel back the release film over a width of about 30cm at the start of the membrane. Lay the adhesive side on the substrate and press it into contact. Uniformly peel back the release film further simultaneously pressing the membrane firmly against the substrate. Use a cloth or soft brush starting at the center and gradually move towards the edges so as to keep the bubbles from forming. Adjacent rolls are aligned and overlapped with a minimum of 65mm on the sides and 100mm at the ends. Press the overlap securely using a rubber roller after removing the silicone release film. Talrak® Flexeal BAT membrane should not be applied at a temperature below - 5°C. It should not be exposed to weathering and needs to be protected suitably.

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Consumption (subject to surface condition)

Talrak® Flexeal BAT: Flat Areas: $1.1\text{m}^2/\text{m}^2$ (Approx.) per layer with min. 65mm Overlaps and min. 100mm end laps.
Average wastages : 2-3%.

Talrak® Flexeal BAT Primer: Smooth Surface: 0.3-0.4 Ltr/ m^2 (Approx.) Will give a dry film thickness of 100 microns.

Estimating

Packaging

Nominal roll length: 10m, 15m, 20m
Nominal roll width: 1m
Nominal thickness: 1.5mm, 1.8mm, 2mm

Storage

The rolls must be stored vertically in a covered area. They should not be exposed to direct sunlight, UV and other sources of heat. The product is best used within 12 months from the date of production. Excessive exposure to sunlight and UV may lead to deterioration of the product quality.

Precautions

Health & Safety Instructions

Talrak® Flexeal BAT membranes contain sticky compound and can stick to human skin. In such cases use a soft cloth dipped in a suitable cleaner to remove the membrane.



Talrak Construction Chemicals Pvt. Ltd.

An ISO 9001:2015 Certified Company

Works:

Plot No. 115-A, 1st Phase. Harohalli Industrial Area,
Kanakapura Taluka - 562 112. Ramanagar Dist.

www.talrak.in

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Ref : TCC/TDS/WP12 - R0