

BLUSKY™ FLOWTHANE PU1K

Liquid Applied Pure Polyurethane Based Elastomeric Protective / Waterproofing Coating

Description

BLUSKY™ FLOWTHANE PU1K is a single component, bitumen / coal tar free high solid content liquid applied elastomeric Pure polyurethane resin based cold applied coating system. Ideally suited for waterproofing of roofs, terraces, walls, basement, Planter, Garden, etc.

Conforming to **ASTM C-836-95 & ASTM C – 898-95**

Indicative Characteristics

Appearance of cured film	Black, Grey
Specific Gravity at 27°C	1.3±0.1
Solid content, % (w/w)	>95
Touch dry at 27°C, 70% RH	4-6 hours
Application Temperature, °C	2 - 45
Shore-A-hardness, ASTM D 2240	65 ± 5
Adhesion to Concrete, ASTM D 903, N/mm ²	>3
Water Vapour Permeability, ISO 9932:91, g/m ² /24h	>35
Elongation at break at 7 days, %, ASTM D412	>600
Tensile Strength, 7 days, N/mm ² , ASTM D 412	>3.5
Initial cure at 27°C, for pedestrian traffic	Within 24 hours
Crack Bridging Capacity, mm	4mm (Minimum)
Full cure, days	7
Theoretical Coverage (WFT)	1.3 kg/mm/m ²

Application Sequence

- Surface preparation – Moisture Checking & grinding.
- Application of Primer.
- Application of **BLUSKY™ FLOWTHANE PU1K** in two coats,
- Protection of **BLUSKY™ FLOWTHANE PU1K** coating and joint sealing

The information contained in this technical data sheet is given to the best of our knowledge and the results from extensive testing in order to remain as objective as possible. However, it cannot, in any case be considered as a warranty involving our liability in case of misuse or any different use of our products from the “Application” paragraph of this technical data sheet. Some application tests should be carried out before using the product to ensure that the methods of use and conditions of application of the product are satisfactory. Our technical assistance is at the disposal of the users Consult the latest update of the technical data sheet on our website www.bluskyspl.com

Domains of Application

BLUSKY™ FLOWTHANE PU1K is formulated to provide an easy, fast and sure system for waterproofing and protecting of new and old roofs, terraces, podiums, basement, swimming pool, planters, etc.

Method of Application

Surface Preparation

The surfaces to be applied should be dry, cleaned and free from oil and grease. Loose particles should be removed and damaged spots repaired first. Cracks should be filled up using **BLUSKY™ FLOWCRETE** cement MORTAR / epoxy mortar. **BLUSKY™ FLOWCOTE BPC / FLOWTHANE –PU/ FLOWTHANE- BI** is recommended to improve the adherence of **BLUSKY™ FLOWTHANE PU1K** Membrane on the substrate as a primer coat. However, **BLUSKY™ FLOWTHANE PU1K** can be directly used over cleaned, dust free, sound concrete surface. Ensure the surface moisture is not more than 8% prior to application of coating / primer.

Mixing

Stir well before using of **BLUSKY™ FLOWTHANE PU1K**

Application

BLUSKY™ FLOWTHANE PU1K can be applied by brush, roller. Alternately can be applied by a suitable spray gun or spread by a rubber squeegee. Additional layer must only be applied when previous layer become dry Recommended consumption of product should be followed. For multiple coats allow sufficient drying application (time gap between two coats : 8-12 hours) between coats. Wherever possible apply coats at right angles to each other to achieve even thickness of coating. Recommended film thickness should be 700 microns to 1000 microns for normal waterproofing using 1.0-1.3kg material. Higher thickness (1000 microns to 2000 microns) of coating is also used depending on site requirement.

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Advantages

- Can be applied by brush or roller
- No root penetration through the hardened coating
- No harm on live plants
- On drying **BLUSKY™ FLOWTHANE PU1K** forms a seamless protective and waterproof membrane.
- Being viscous it does not sag when applied on vertical surfaces. **BLUSKY™ FLOWTHANE PU1K** has excellent adhesion to dry as well as primed surfaces of concrete, tile, plaster, bituminous roofing felt, asphalt coating and metal.
- Cured membranes of **BLUSKY™ FLOWTHANE PU1K** remain highly flexible even at extremes temperature range (-25°C to 120°C).

Precautions

- Store the material at the 5° to 40°C temperature range in shaded cool place and keep it away from fire and any heated body. Clean all tools with MEK or any standard solvent before polymerization starts.
- Mix only sufficient materials for immediate requirements. Leave the mixed material to stand for 5-8 minutes to enable entrapped air, if any, to escape from the mix and then use as quickly as possible.

Safety

- Wear hand gloves, safety shoes and safety goggles while using and handling the product.
- In case eyes or mouth are affected wash with plenty of clean water and seek medical treatment immediately.

Before use, refer to the Material Safety Data Sheet. The MSDS is available on www.bluskyscpl.com

Shelf Life & Storage

6 months from the date of manufacturing when stored in unopened, original sealed and dry condition at a temperature range from +5°C to 40°C

Packing

20 / 25 kgs

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