

OPTIMASTIC PU1K-40

Bitumen – Polyurethane Modified Waterproofing

Product Description

OPTIMASTIC PU1K-40 is a ready to use single component cold applied, moisture cured waterproofing and sealing product composed of bitumen – polyurethane material. It is a coal-tar free material that provides a protective elastomeric membrane that has long-lasting durability and absolute high performance waterproofing suitable for concealed type of applications.

Features

- Ease of application (brush, roller, squeegee)
- High & Low Temperature Resistance
- Seamless & Fast Cure
- Provides high levels of crack bridging
- Full surface adhesion
- Can easily be repaired if membrane is damaged
- Environmental friendly product

Application areas

- Roof Decks with concrete screed
- Waterproofing of Balconies / Terraces
- Waterproofing of Wet areas (under tiles) in Toilet & Bath, Kitchens etc.
- Swimming Pools
- Flexible waterproofing under tiling for indoor or outdoor applications

Processing Data

Mix Ratio (by volume)	Single Component	
Gel Time at 30 °C	30-45 mins	
For Overcoat	Min.	3-4 hours
	Max.	12 hours
Full Cured	24 hours	
Rain Stability Time	4 hours	
Pot Life at 30 °C	50~ 60 minutes	
Shelf Life	12 months at room temperature	

Technical / Performance Data

Colors	Black Only
Elongation	700% minimum ASTM D412
Hardness	Shore A 35 ASTM D 2240 (15")
Light-Heavy Pedestrian Traffic Time	24 hours cure time Conditions: 20°C, 50% R.H
VOC	> 96 g/ L USEPA Method 24
Water Vapor Absorption	1.4 g/ft ² /hr ASTM D570-98
Crack Bridging	Up to 2mm cracks
Flammability	Non Flammable

Procedure & Guidelines

SURFACE PREPARATION

GENERAL

All surfaces must be thoroughly cleaned to remove dirt, grease, mill scale, loose rust, chalk, and any other contaminants that can reduce adhesion.

CONCRETE / MASONRY

Cure for at least 28 days before application. Remove loose or excess mortar, efflorescence, laitance and concrete form release compounds that reduce adhesion. Etch or abrasive blast polished or glazed concrete before use on floors.

PREVIOUSLY PAINTED SURFACES

Scrape loose, scaly, peeling paint and sand the edges smooth. If the paint is glossy, sand to dull the surface. Remove any rust and scale from ferrous metal. If mildew is present, remove completely by sterilizing the surface with mildew remover and detergent. Rinse well and allow to dry before painting.

MIXING

Stir well before application.

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APPLICATION

OPTIMASTIC PU1K40 is supplied ready to use. Apply first layer of the material, to achieve a dry film thickness of 0.5mm, material should be applied at 0.6-0.9kg/m², allowing a drying time of 3-4 hours before applying the 2nd coat depending on weather conditions.

To achieve a dry film thickness of 1mm, apply 1.8kg/m² at two (2) coats. For demanding applications, install non woven fiber fabric (minimum 45gsm) after the 1st coat (tacky condition) and consecutively apply the 2nd to 3rd coat, if necessary apply 4th coat if high thickness range is desired.

The material is a primer less type of waterproofing material, however if concrete moisture is above 5%. Please use SEALBOND DPS Deep Penetrating Sealer as primer to effectively seal moisture.

NOTE:

For all applications, **Product requires to be applied with concrete screed/ topping.**

Do not leave metal bucket open for prolonged periods, the material will dry due to its moisture curing reaction. Consume all material after opening the packaging.

Clean application tools and equipment with any paint reducer while the material is still wet.

Theoretical Coverage

OPTIMASTIC PU1K-40 weight
1.8 kgs/m², 2 coats at 1mm/ 39-40 mils DFT

Demanding Applications Guideline

2.6 kg/m² ~ 2.7kg / m² @ 3 coats = 1.4mm~1.5mm/ 55~ 59mils DFT
2.9kg/ m² ~ 3.6kg/m² @ 4th coat = 1.7mm~ 2mm / 65 mils ~ 80 mils DFT

Note: Above coverage may vary depending on the actual concrete substrate & thickness desired

Product is manufactured based on International Environmental Regulations



Health & Safety

Please wear rubber or plastic gloves to avoid contact with skin. Please refer to MSDS for other safety information.

Product is for Professional use only.

Storage / Packaging

OPTIMASTIC PU1K-40 is available in 20kg metal bucket.

This product must be stored always in dry and closed room, protected from sun and rain. No waterproofing works should be performed if weather is unsuitable. These include heavy rain and moisture.

Product Limitations

Product can withstand heavy load but cannot withstand excessive abrasion, concrete screed is a must.

Additional Information – Disclaimer

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All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the Product Data Sheet for the product awareness, copies of which will be supplied on request and is free of charge.



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Waterproofing Products

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