

OPTIMASTIC PU1K-50

POLYURETHANE ONE-COMPONENT WATERPROOFING

Shelf Life	12 months at room temperature
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Product Description

OPTIMASTIC PU1K-50 is a ready to use single component cold applied polyurethane waterproofing and sealing membrane. It provides a permanently highly elastic & protective waterproofing membrane that has long-lasting durability and absolute ultra high performance waterproofing suitable for various type of roofs and exposed areas.

Features

- Ready to use. Solvent-Based Polyurethane (PU) Liquid applied waterproofing membrane
- Ease of application (roller or spray)
- Seamless membrane without joints
- Resistant to UV
- With abrasion properties
- Provides high levels of crack bridging
- Maintains thermal shock properties over (-30°C to 90°C)
- Full surface adhesion
- Resistance to salty water, aqueous solution, bases, diluted acids, aliphatic solvent, benzene and mineral oils.
- Environmental friendly product

Application areas

- Waterproofing of Rooftops
- Waterproofing of Balconies
- Waterproofing, sealing and protection on different kind of roof such as tile roof, metal roofs, fiber-cement panels, etc.
- Flexible waterproofing under tiling for indoor or outdoor applications

Processing Data

Mix Ratio (by volume)	Single Component	
Gel Time at 30 °C	1 hour	
Coating Interval	Min.	2 hours
	Max.	12 hours
Full Cured	48 hours	
Rain Stability Time	4 hours	
Pot Life	30-45 minutes	

Technical / Performance Data

Elongation	≥700% ASTM D412
Hardness	Shore 60 ASTM D 2240
Tensile Strength	2.75 Mpa ASTM D412
Adhesion with concrete	1.03 N/mm ²
Adhesion Peel	0.17 kgf/ mm ASTM D903: 2017
Light-Heavy Pedestrian Traffic Time	12 hours cure time Conditions: 20°C, 50% R.H
VOC	Less than 47.63 g/L
Crack Bridging	1-2mm cracks ASTM C1305
Thickness	1mm DFT Required

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

Apply (1) one coat of Sealbond DPS Deep Penetrating Sealer (Please see Technical Data Sheet of Sealbond DPS).

OPTIMASTIC PU1K-50 is supplied ready to use. Mix container before application. Apply (2) two crossed coats by roller or airless spray with a consumption of .75 kg/m² per coat, allowing a drying time of 15-18 hours between coats depending on weather conditions. For demanding applications, apply third coat of OPTIMASTIC PU1K-50.

For exposed applications that do not allow concrete topping, apply Sealbond PU-108 Polyurethane Coating as Topcoat for 2 coats by brush or roller. PU-108 is to be used as UV protection for the PU1K-50.

(for other detailed and demanding application, please contact Sealbond Technical personnel)

Theoretical Coverage

14.7m² at 1mm thickness

Note: Above coverage are depending on the substrates per layer

Product is manufactured based on International Environmental Regulations

OPTIMASTIC PU1k-50 is a green revolution product in waterproofing solutions.



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-50 is available in 22 kg pail

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

Product Limitation

Product should not be applied directly to the substrate that shows any hydrostatic pressure problems that may later cause disbonding.

Additional Information - Disclaimer

The information and in particular, recommendations relating to the application and end-use of Sealbond products, are given in good faith based on Sealbond's best knowledge and specialty on construction chemical formulations. Products are properly stored and handled in accordance with Sealbond's endorsements. Hence, subject to the care and method of application, deviations (from published values) in performance may occur. In practice, to different materials used, as well as varying working conditions and environments beyond our control Sealbond Chemical Industries Inc. strictly recommend carrying out intensive trials to test the suitability of the product with regards to the required processes and applications. Therefore, any liability for such recommendations or any oral/verbal advice is expressly excluded unless we have acted wilfully or by gross negligence. Sealbond Chemicals Industries Inc. is not liable for installation or faulty installation. It is always the responsibility of the installer/applicator/purchaser to guarantee and certify the installation of materials.

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

SEPTEMBER 2020

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