

OPTIMASTIC PU-W

WATER-BASED POLYURETHANE MEMBRANE

Product Description

OPTIMASTIC PU-W is a ready to use flexible single pack cold applied waterproofing and sealing product composed of water-based synthetic resins that exhibit excellent mechanical, thermal & natural element resistance properties. It provides a protective elastomeric membrane that has long-lasting durability and absolute high performance waterproofing suitable for various type of roofs and outdoor areas.

Features

- Ease of application (roller or spray), Fast Drying
- Available in variety of colors for decorative purposes (standard : white)
- Coal tar free
- No blistering and No reinforcement required
- Anti-fracture
- Resistant to UV
- Non-Toxic
- Maintains thermal shock properties over (-50°C to 90°C)
- Tough dry at 30°C: Maximum of one (1) hour and thirty (30) minutes
- Can easily be repaired if membrane is damaged
- Environmental friendly product

Application areas

- Waterproofing of Rooftops (concealed)
- Waterproofing of Balconies / Terraces (concealed)
- Waterproofing of Wet areas (under tiles) in Toilet & Bath, Kitchens etc.
- 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
- A highly UV resistant protective waterproofing material for facades, partitions, fire wall or exterior walls.
- Sealing and waterproofing cracks, fissures, joints, junctions, passing pipes and other outstanding points subject to movement

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	8 hours	
Rain Stability Time	4 hours	
Pot Life	30-45 minutes	
Shelf Life	12 months at room temperature	

Technical / Performance Data

Colors	White other colors available upon request
Elongation	≥600-700% ASTM D412
Hardness	Shore 81.2 ASTM D 2240: 2016
Tensile Strength	3.53 Mpa ASTM D412
Adhesion with concrete	1.03 N/mm ²
Adhesion Peel	0.17 kgf/ mm ASTM D903: 2017
Adhesion Strength	100% A/B ASTM D4541: 2009 e1
Water Vapor Transmission	1.36e-06 ASTM E96: 2016
Solid by Volume	80%
Light-Heavy Pedestrian Traffic Time	12 hours cure time Conditions: 20°C, 50% R.H
Nonvolatile Content	47.5% ASTM D6511:2011
VOC	Less than 76.52 g/L
Crack Bridging	2mm cracks ASTM C1305:2016
Thickness	1mm DFT Required

Conforms to ASTM E96, ASTM C836, ASTM D903, ASTM D4541 and ASTM C1305

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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.

APPLICATION

Apply one coat of Sealbond DPS Deep Penetrating Sealer (*Refer to Technical Data Sheet of Sealbond DPS*).

OPTIMASTIC PU-W is ready to use. Apply two crossed coats by brush, roller, or airless spray with consumption of 1.5-2.0 kg/m² at 1mm thickness, allowing a coating interval of 2-12 hours between coats depending on weather conditions. On vertical surfaces, apply in three or four coats to achieve the same total consumption. For improving adhesion of tile mortar or concrete topping, spread dry sand on the second fresh coat. Clean application tools and equipment with water while the material is still wet.

Theoretical Coverage

Waterproofing weight
1.5-2.0 kgs/m² at 1mm thickness

Note: Above coverage are depending on the substrates per layer

Product is manufactured based on International Environmental Regulations

OPTIMASTIC PU-W 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 PU-W 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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