



OPTIMASTIC PUC-W

WATER-BASED POLYURETHANE CERAMIC WATERPROOFING MEMBRANE

Product Description

OPTIMASTIC PUC-W is a ready to use single component cold applied waterproofing and sealing product composed of water-based synthetic resins and ceramic microspheres that exhibit excellent mechanical, solar reflectance & natural element resistance properties. It provides a protective highly elastic membrane that has long-lasting durability and absolute high performance waterproofing suitable for various type of roofs and outdoor areas. The product has been tested for **Solar Reflectance Index(SRI) with rating 94** specially formulated for cool roof and green building applications.

Features

- Ease of application (roller or spray) and brush for detailing works
- Saves energy costs
- Water-Based product
- Seamless membrane without joints
- Resistant to water
- Resistant to UV
- Provides high levels of crack bridging
- Maintains thermal shock properties over (-50°C to 90°C)
- Full surface adhesion
- Can easily be repaired if membrane is damaged
- Environmental friendly product

Application areas

- Waterproofing of Rooftops
- Waterproofing of Balconies / Terraces
- 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,
- Flexible waterproofing under tiling for indoor or outdoor applications
- An extremely 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	30 minutes	
Coating Interval	Min	2 hours
	Max	12 hours
Full Cured	48 hours	
Rain Stability Time	4 hours	
Pot Life	30-45 minutes	
Shelf Life	12 months at room temperature	

Technical / Performance Data

Colors	White and Gray	
Solar Reflectance Index (SRI)	White Color	rating 80~94
	Gray Color	rating 65~80
Elongation	386 % ASTM D412	
Hardness	Shore A 55 ASTM D 2240	
Tensile Strength	2.2 N/mm ² ASTM D412	
Tear Strength	16 N/mm ² ASTM D624	
Hardness	74 Shore A	
Water Vapour Transmission	13.2 g/m ² day ASTM E96/E96M	
Hydro Static Pressure	No rupture ASTM DIN 16726	
Service Temperature	346.4°C ASTM E1131	
Flash Point	Min 60 °C	
Solid by Volume	93±3%	
Light-Heavy Pedestrian Traffic Time	24 hours cure time Conditions: 20°C, 50% R.H	
VOC	Less than 110 g/L USEPA Method 24	
Crack Bridging	1-2 mm ASTM C836/C836M	



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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

OPTIMASTIC PUC-W is supplied ready to use. Apply two crossed coats by squeegee / trowel (recommended), brush and or airless spray and use roller to fill uneven surface. Application should be step by step build up to achieve product quality, with a consumption of 1.5 kg to 2.0 kg per m² at 1mm DFT allowing a drying time of 2-4 hours between each coats depending on weather conditions. On vertical surfaces, apply in three or five 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.

For demanding applications, apply minimum of five coats of OPTIMASTIC PUC-W. (For other detailed areas and demanding application, please contact Sealbond Technical personnel)

Theoretical Coverage

Exposed: 1.5 – 2.0kgs / m² at 1mm DFT

Optimastic PUC-W can be applied with fiber mesh for additional reinforcement with a min 100 g/m² recommended before the final coat application.

Note: Above coverage are depending on the substrates per layer

Product is manufactured based on International Environmental Regulations

Optimastic PUC-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 PUC-W is available in 20 kg pail.

This product is nonflammable.

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

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