

OPTIMASTIC PU2KHT

POLYURETHANE HIGH HARDNESS WATERPROOFING

Product Description

OPTIMASTIC PU2KHT is a monolithic, liquid applied two component waterproofing membrane which is highly recommended for heavy duty areas such as car parks, helipad and other heavy traffic areas. The product cures to a high hardness flexible material with good abrasion resistance that can with stand foot to vehicular traffic applications.

Features

- Ease of application (brush, roller, notched trowel, and squeegee)
- Resistant to vehicular traffic applications
- Resistant to water
- Resistant to UV
- Provides level 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

As waterproofing material for the following:

- Exposed Car Parks
- Helipad
- Balcony
- Podium Decks
- Roof Decks
- Chemical Plants
- Food Processing Plants
- Other flooring applications that require long life under various conditions

Processing Data

Mix Ratio (by volume)	1:1.5 Base/Hardener	
Gel Time	45 minutes	
Coating Interval	Min.	4-6 hours
	Max.	18 hours
Full Cured	7 days	
Rain Stability Time	4 hours	
Pot Life	30 minutes	
Shelf Life	6 months at room temperature	

Technical / Performance Data

Colors	Standard Gray
Elongation	500% ASTM D412
Hardness	Shore A 85 ASTM D 2240 (15")
Tensile Strength	2511 Mpa ASTM D412
Tear Resistance	240 lbs/ in. ASTM D1004
Adhesion to substrate	31 lbs/in ASTM D903
Permanent set at break	11.5% ASTM D412
Moisture Vapor Resistance	1.04 perms ASTM E96
Changes in Weight	1.8490 ASTM D471
Light-Heavy Pedestrian Traffic Time	24 hours cure time Conditions: 20°C, 50% R.H
Viscosity	4700 cps
VOC	84.72 g/L US EPA Method 24
Crack Bridging	1-2 mm ASTM C836/C836M

Conforms to ASTM C1306 / C1306M, ASTM E514, ASTM D471 and ASTM E96

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.

OPTIMASTIC PU2KHT

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

Mix container A and B with appropriate mixing ratio of 1:1.5 parts by volume and mix with a slow speed mechanical mixer until homogenous and lump free.

APPLICATION

Apply (1) one coat of Sealbond EPC 100 as primer (Please see Technical Data Sheet of Sealbond EPC 100)

OPTIMASTIC PU2KHT is supplied in two (2) component packaging. Mix container before application. The system can be applied using roller, notched trowel, squeegee and brush for detailing areas.

1.57kg/m² is needed per square meter to obtain an average dry film thickness of 1mm. 3.14 kg/m² for 2mm thick and 4.71 kg/m² for 3mm thick.

Allow a minimum of 4 hours before applying the next coat.

For exposed applications:

Apply Sealbond PU-108 Polyurethane Coating as Topcoat for 2 coats by brush / roller/ airless spray. PU-108 is to be used as UV protection for the PU2K-HT (for other detailed and demanding application, please contact Sealbond Technical personnel)

Theoretical Coverage

OPTIMASTIC PU2KHT polyurethane high hardness flooring
 1.57 kg/m² at 1mm thickness
 3.14 kg/m² at 2mm thickness
 4.71 kg/m² at 3mm thickness

Note: Above coverage are depending on the substrates per layer

Product is manufactured based on International Environmental Regulations

Optimastic PU2KHT 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 PU2KHT is available in 20kg.

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.

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