

# OPTIMASTIC PU2KLT

## POLYURETHANE WATERPROOFING MEMBRANE

### Product Description

**OPTIMASTIC PU2KLT** is a two component, solvent free, liquid applied two component waterproofing membrane coating system. It is designed to use in concrete substrate such as; roof deck, balconies, the product cures to a flexible membrane that allows resistance to structural movement or heavy vibration without waterproofing membrane rupture.

### Features

- Ease of application (brush, roller, notched trowel, and squeegee)
- Resistant to Pedestrian Traffic
- Watertight
- Elongation Properties
- Resistant to UV
- Full surface adhesion
- Can easily be repaired if membrane is damaged
- Environmental friendly product

### Application areas

- Waterproofing of Rooftops
- Waterproofing of Balconies / Terraces

### Processing Data

Mix Ratio (by volume)	1:3 Base/Hardener	
Gel Time	45 minutes	
Coating Interval	Min	4-6 hours
	Max	18 hours
Full Cured	7 days	
Rain Stability Time	18 hours	
Pot Life	30 minutes	
Shelf Life	6 months at room temperature	

### Technical / Performance Data

Colors	Standard Gray and Green only
Elongation	891% ASTM D412
Hardness	Shore A 55 ASTM D 2240 (15")
Tensile Strength	23 Kg/cm <sup>2</sup> ASTM D412
Tear Strength	12 kgf/cm
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 100g/L USEPA Method 24

### 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 to be mixed uniformly before application. Mix ratio 1:3 (by weight); 1-part of base coat to 3 parts hardener, keep correct mixing ratio. Mix thoroughly with a slow speed drill equipped with a paddle

##### APPLICATION

Apply one coat of Sealbond EPC 100 as a primer (Refer to Technical Data Sheet of Sealbond EPC 100).

## OPTIMASTIC PU2KLT

OPTIMASTIC PU2K-LT is supplied in two (2) component packaging. Mix container before application. Mix ratio is at 1:3.

The system can be applied using roller, notched trowel or brush. 1.2~1.4kg is needed per square meter to obtain an average dry film thickness of 1mm.

Allow a minimum of 4 hours before applying the next coat or top coat at room temperature.

Conduct a flood test of the product the following day. After a completion of successful water test and/or repairs, cover membrane with concrete mortar or protection board as soon as possible. All waterproofing membranes must be protected within five (5) days after cured application

### For exposed applications:

Apply Sealbond PU-108 Polyurethane Coating as topcoat for 2 coats by brush or roller. Sealbond PU-108 is to be used as UV protection for the Optimastic PU2K-LT. (for other detailed and demanding application, please contact Sealbond Technical personnel)

For exposed applications that require vehicular traffic such as exposed roof deck type car parks wherein there is excessive abrasion happening, Use OPTIMASTIC PU2K-HT and consult Sealbond Technical Personnel for detailed specifications.

### Theoretical Coverage

Waterproofing weight at 2 coats

1.2~1.4 kgs/m<sup>2</sup> at 1mm thickness

2.4~2.8 kgs/m<sup>2</sup> at 2 mm thickness

3.6 ~4.2 kgs/m<sup>2</sup> at 3 mm thickness

~500 microns / coat Dry Film Thickness

Note: Above coverage are depending on the substrates per layer

Product is manufactured based on International Environmental Regulations

**Optimastic PU2KLT** 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 PU2KLT 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.

### 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

AUGUST 2018

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