

# OPTIMASTIC PU1K-60

## Polyurethane Waterproofing Membrane

**OPTIMASTIC PU1K-60** is a ready to use single component moisture cured cold applied waterproofing and sealing product composed of high quality polyurethane resins that exhibit excellent mechanical, thermal & natural element resistance properties. It provides a permanently elastic & protective waterproofing membrane that has long-lasting durability and absolute ultra high performance waterproofing suitable for various type of roofs and exposed areas.

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### RECOMMENDED APPLICATION

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, fiber-cement panels, etc.  
Flexible waterproofing under tiling for indoor or outdoor applications  
Sealing and waterproofing cracks, fissures, joints, junctions, passing pipes and other outstanding points subject to movement

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### Advantages

Ease of application (roller or spray)  
Available in variety of colors for decorative purposes (standard: gray)  
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

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### Packaging & Coverage

**OPTIMASTIC PU1K-60** is available in 22kg pail. Product can cover 14.70m<sup>2</sup> / 22kg pail @ 2coats.

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## How to Use

### Substrates & 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 30 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.

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**Mixing** Stir well before application.

**Application** Apply (1) one coat of Sealbond DPS Deep Penetrating Sealer (Please see Technical Data Sheet of Sealbond DPS or Sealbond SE-108AS, either sealers could be used)

*OPTIMASTIC PU1K-60* 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/m<sup>2</sup> 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-60*.

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-60.

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

**Colors** Standard Gray and Green only.

**VOC** *Product is manufactured based on International Environmental Regulations*  
*Optimastic PU1K-60 is a green revolution product in waterproofing solutions.*



**Technical Data**

PROPERTY	RESULTS	TEST METHOD
Elongation at Break	≥700%	ASTM D412
Hardness(Shore A)	60	ASTM D 2240(15")
Tensile Strength	>4.0 N/mm <sup>2</sup>	ASTM D412
Tear Strength	> 12N/mm <sup>2</sup>	In house Laboratory
Service Temperature	-30°C to +90°C	In house Laboratory
Crack Bridging	Minimum up to 3.5mm cracks	In house Laboratory
Rain Stability Time	18 hours	Conditions: 20°C, 50% R.H
Light – Heavy Pedestrian Traffic Time	24 hours cure time	
Final Curing Time	7 days	
VOC	47.63 g/L	USEPA Method 24

Waterproofing Weight @ 2 coats	1.5kgs/m <sup>2</sup> @ ±1mm thickness 500 microns / coat Dry Film Thickness	Roller applied
Solid Content	>95%	
Adhesion to Concrete	>1.5N/mm <sup>2</sup>	
Shelf Life	9 Months from date of manufactured	

### **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.

### **Handling & Storage**

This product is non flammable  
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

### **Limitations**

Product cannot withstand vehicular traffic.