

# SMARTCARE PU MAGNUM

## WATERPROOFING SOLUTION

Two component polyurethane waterproofing.

### PRODUCT DESCRIPTION

SmartCare PU Magnum is a two-part liquid applied, seamless, fully bonded, self-priming polyurethane based waterproofing membrane. Smartcare PU Magnum has high mechanical strength, highly elastic and crack-bridging ability, and chemical resistance. It has excellent adhesion on porous and non-porous substrates and exceptional resistance to UV radiation and adverse weather conditions.

### KEY FEATURES

- **Multi-Resistance Properties:** The product offers comprehensive mechanical, chemical, thermal, UV, and weather resistance properties for high durability.
- **Seamless Elastic Finish:** It creates a uniform, elastic coating without any seams or joints, providing a continuous waterproof barrier.
- **Broad Compatibility:** The membrane is compatible with old layers of bitumen or EPDM, making it ideal for refurbishment or overlay projects.
- **High Elongation:** It features high elongation properties, allowing the material to stretch significantly without breaking or losing its integrity.
- **Crack Bridging Ability:** The product possesses the ability to bridge cracks up to 3mm, effectively managing structural movements in the substrate.

### PRODUCT BENEFITS



Superior flexibility



Crack-bridging properties



Highly Durable



UV Resistance

### PACKAGING

22kg

### TECHNICAL PROPERTIES

Properties	Value
Colour	Black
Theoretical coverage	0.5 kg/m <sup>2</sup> @ 400 micron DFT
Solid content	> 85%
Elongation at break (ASTM D 412)	822%
Tensile strength (ASTM D 412)	2.5 N/mm <sup>2</sup>
Water permeability (0.3 MPa/30 min)	Impermeable
Surface drying time	8 hr
Drying time	24 hr
Crack bridging (ASTM C 1305)	> 3 mm
Pot life @ 25°C	70 min
Shelf life	1 year
Temperature resistance	-30°C to +90°C

\*All values are subject to 5 – 10% tolerance.

### APPLICATION AREAS

- Roof waterproofing
- Foundations, basements and tunnels
- Podiums, balconies, planters
- Floor slabs, suspended floors, patios
- Bathrooms, inspection pits
- Swimming pools
- Bridge decks

### Other Applicable systems\*

- Adhesive-based fully bonded EPDM membrane
- App modified 3mm bitumen membrane + Aluminum paint coat/ mineral finish
- Acrylic Polymer modified cementitious coating.

\*Not applicable for deck slab

## APPLICATION METHOD

### 1. Surface Preparation:

- In general, the substrate must be dry (moisture content <5%), clean, free of grease, loose particles, dust, etc. Any existing cavities in concrete should be filled with the Asian Paints Berger SmartCare Repair Mortar in advance and allowed to cure.
- For Concrete, Bituminous, and Porous substrates, Concrete, bituminous membranes, or old waterproofing layers and other porous surfaces should be primed with Apcoflor HFP 120.

### 2. Mixing:

Stir the individual container separately to get a homogeneous material. Add Part - B to Part - A for about 2-3 minutes with a low-speed mixer (300 rpm), until the mixture becomes uniform. It is important to stir the mixture thoroughly near the sides and bottom of the container, to achieve uniform dispersion of the hardener.

### 3. Application:

Apply 1st coat with a brush/roller. Apply 2nd coat perpendicular to first coat, after 4 hrs interval.

## PRODUCT LIMITATIONS

Not available

## STORAGE CONDITIONS

To maintain the quality of SmartCare PU Magnum, the product must be kept in its original packaging in dry and unopened bags. It is important to note that the storage environment significantly impacts the material, as storing the product in high-temperature areas may result in a reduced lifespan.

## SHELF LIFE

The product has a shelf life of 1 year from the date of production. This timeframe is valid only when the product is stored according to the recommended guidelines in a dry environment and within its original, unopened bags.

## SAFETY PRECAUTIONS

- Always wear protective gloves, goggles, and clothing during mixing and application to prevent skin or eye irritation.
- Avoid direct contact with skin or eyes; in case of contact, wash the affected area with plenty of clean water.
- If inhaled, move the affected person to fresh air immediately and seek medical advice if discomfort persists.
- Ensure proper ventilation at the site of application to avoid inhalation of fumes.
- Keep away from heat, sparks, and open flames. Do not smoke during handling.

## CERTIFICATIONS

SmartCare PU Magnum complies with ASTM D 412 and ASTM C 1305.

## DISCLAIMER

The information provided in this Technical Data Sheet is based on laboratory tests, industry practices, and practical application experience. However, actual site conditions may vary and are beyond the manufacturer's control. Asian Paints makes no warranties, expressed or implied, and shall not be liable for any loss or damage resulting from improper usage, handling, or non-compliance with the recommended guidelines. Users are advised to test the product for suitability before full-scale application.