



## WATERGUARD PU MEMBRANE

POLYURETHANE BASED TOUGH ELASTOMERIC WATERPROOFING MEMBRANE

### BENEFITS

- Chemical resistant : Resists deterioration from dilute acids and alkali, oil, salts, bacteria, and common fuels.
- Single component, Easy to apply.
- Applied by roller, brush, or airless spray.
- Tenacious adhesion and high elastic recovery.
- Long term resistance to ponded water.
- High elongation, permits membrane to stretch with movement in the substrate.
- Excellent crack bridging properties.
- Continuous monolithic (seamless) layer completely bonded to the substrate, eliminates horizontal migration of water between membrane and the substrate. Thus if the membrane is punctured, a leak can only occur directly below the damaged section of the membrane, allowing fast location and inexpensive repairs.

### USES

WATERGUARD PU MEMBRANE is used as a waterproofing or vapor barrier for protection of Foundations & Basement, Ground floors, Kitchens & bathrooms, Split slab, Terraces, balconies & patios, Car Park decks, Inverted roofs & sunken slabs, Tunnels.

### DESCRIPTION

WATERGUARD PU MEMBRANE is a pitch extended polyurethane based elastomeric coating, formulated to give long lasting, maintenance free, and superior waterproofing protection for concrete and steel structures. The coating during forms a tough elastomeric membrane which offers the most advanced waterproofing technology and provides long term performance and security of the waterproof environment.

### PROPERTIES

Color	: Black
Form	: Viscous Black liquid
Tensile strength, (as per ASTM D 412)	: >1.5
Shore A Hardness (as per ASTM D 2240)	: 40-50%

Tensile set recovery (As per ASTM D 412)	: 900%
Elongation (as per ASTM D 412)	: >500 kN/m
Tear resistance (as per ASTM D 1004)	: >6
Water permeability (as per BS EN 12390)	: Nil @5 bar
Crack bridging (as per ASTM C 836)	: 1.5 mm
Low temperature flexibility (as per ASTM C 836)	: -15°C
Adhesion in peel (as per ASTM C 794)	: >50 N/inch
Chemical resistance (as per ASTM D 543)	: pH 2.0 - 11.5
Re-coat interval @25°C 50% RH	: 24 hours
Full cure @25°C, 7 days	
Application temperature	: 5°C to 35°C

### APPLICATION

**Surface Preparation :** Surface must be structurally sound, clean dry and free from dust, grease, curing compounds, paint coatings, and other loose debris. Surface should ideally have a "sand paper" profile roughness. Recommended methods for preparing concrete are by sand or captive shot blasting; wire brushing or by pneumatic (scabbling) tools. Shrinkage and non structural cracks should be pre-treated with a 1mm thick coating of WATERGUARD PU MEMBRANE reinforced with WATERGUARD GRS - fiber reinforce sheet extending at least 50mm on both sides of the crack. Allow to cure for 24 hours. Right angle or corner should have cant strips installed. A suitable cant strip can be prepared by mixing 1 part cement and 1 part fine clean sand and FAIRCRETE FBR additive. First apply 0.5mm thick WATERGUARD PU MEMBRANE on the corners. Embed a 100mm width reinforcing WATERGUARD GRS - fiber reinforce sheet on the bedding coat then apply a second coat of WATERGUARD PU MEMBRANE 0.5mm thick completely covering the reinforcement. Allow to cure at least 12 - 24 hours. Install mortar canting on the corners extending on both sides by 50mm. Allow cure for 24 hours prior to general application.

**Priming :** Normally WATERGUARD PU MEMBRANE can

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