

HIGH MOLECULAR INNER POLY- URETHANE LIQUID APPLIED, 505% ELASTOMERIC WATERPROOFING MEMBRANE

DESCRIPTION

MIWA In-PU 505 is a specially formulated, cold applied, moisture-cured polyurethane elastomeric waterproof membrane. When cured, MIWA In-PU 505 forms a seamless, flexible but tough elastomeric waterproof membrane.

USES

For waterproofing areas with migrant or stationary water such as:

- Between slabs of parking decks, roof decks, plaza decks or courtyard areas over Subterranean parking;
- Inside of planter boxes;
- Ground slabs prior to laying terrazzo, marble or tile floors;
- Under shower pans, kitchen, laundry, bathroom floors and balconies;
- Mechanical rooms, fountains, internal wet areas;
- Bridges, highways;
- Below-grade slabs, walls, culverts, drains, sea-walls, dams, reservoirs, retaining Walls, concrete tanks and similar areas that require superior waterproofing properties.

ADVANTAGES

- Single-component ready-to-use. No mixing required.
- Easily applied by spray, brush, roller or trowel
- Seamless membrane system
- Elastomeric, excellent adhesion and low vapour permeability.
- Capable of bridging substrate cracks up to 2mm width.
- Provides protection against penetration and lateral movement of water.
- Maintains flexibility and waterproofing properties even when subjected to continuous exposure to water.
- Excellent waterproofing qualities
- Able to withstand high hydrostatic pressure

SURFACE PREPARATION

The substrates must be clean and sound, free of dust and loose particles. Laitance, oil, grease, mould release agents or curing compound must be removed from concrete surfaces by using wire brush, scabblers or other means.

It is recommended that a cement & sand fillet be formed at all corners to receive the waterproofing membrane.

Ensure that the substrate is dry and free from moisture before applying the waterproofing. On porous substrates, MIWA In-PU 505 may be diluted with 5% (by weight) of xylene to prime the surface to prevent pinholes prior to the application of MIWA In-PU 505 waterproofing membrane.

APPLICATION

Apply MIWA In-PU 505 with a roller, trowel or squeegee directly to the surface to achieve a thickness of 1.1mm wet film (45 mils).

Standards & Specifications

Meets the requirements of A.S.T.M. D-2240, D-412, E-96, D-903.

Technical Data

Product Type	: P.U. (Solvent based)	ASTM D-2369	
Colour	: Black (for concealed application only)		
Density	: $1.22 \pm 0.1 \text{ g/cm}^3$		
Viscosity (poise)	: 80 ± 10		
Application life after opening pack	: Up to 48 hrs stored in closed containers		
Tack free time at 25°C & 55% R.H.	: 12 hours		
Recoat Time at 25°C & 55% R.H.	: 12 to 24 hours		
Hardness (Shore A)	: $> 25 \pm 5$		ASTM D-2240
Tensile Strength	: $> 1.6 \text{ N/mm}^2$		ASTM D-412
Percentage Elongation	: $> 500\%$		ASTM D-412
Recovery (percent)	: 94%	ASTM D-412	
Water Vapour Transmission	: $< 30 \text{ g/m}^2/24 \text{ hrs}$ (water method)	ASTM E-96 1995	
Adhesion to Concrete	: 0.5 N/mm^2	ASTM D-4541	
Hydrostatic Pressure Resistance	: No water penetration at 0.1 bar	D/N 1048 : Pt 5	
Service Temperature	: -35°C to 79°C		
Minimum application temperature	: $> +7^\circ\text{C}$		

PACKAGING

Packing Size : 24kg per pail

COVERAGE

Coverage : $1.3 \text{ kg/m}^2/2 \text{ coat}$ application

STORAGE

The shelf life of MIWA In-PU 505 is 12 months when stored unopened in a cool and dry place.

HEALTH & SAFETY

Gloves and goggles should be worn. Any splashes to the skin or eyes should be washed off with clean water. In the event of prolonged irritation, seek medical advice. Areas of use should be well ventilated. Refer to MSDS for further information.

IMPORTANT NOTES

The information set forth herein is furnished in good faith and is based on technical data that MIWA In-PU 505 considers to be reliable. This information is intended for used by persons having technical skill and at their own discretion and risk. Information contained in this product sheet conforms to the standard detail recommendations and specifications for the installation of MIWA In-PU 505 products as of the date of publication of this document. MIWA In-PU 505 makes no other warranties and assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. To ensure that you are using the latest, most complete information, contact MIWA In-PU 505