

# TECHNICAL DATA SHEET



## MONDOLASTIC DECK SEAL

Polyurethane-Acrylic Waterproofing Membrane MD-ML-900



### PRODUCT DESCRIPTION

**MONDOLASTIC 900** is a one-component POLYURETHANE-ACRYLIC liquid applied flexible membrane for concrete roof deck waterproofing. It offers outstanding water ponding, crack bridging and heat reflective properties.

### RECOMMENDED USES

- Waterproofing of new construction or refurbishing of concrete roof deck

### FEATURES

- Very low water uptake to enhance water ponding capability
- Excellent elasticity for crack bridging property
- Excellent UV and thermal aging resistance
- Good dirt pick up resistance to enhance solar reflectance and energy cost savings
- One component, easy and ready-to-use seamless waterproofing membrane

### TECHNICAL DATA

<b>Type</b>	: Polyurethane Acrylic
<b>Appearance</b>	: Liquid
<b>Color</b>	: MD-ML-900 White
<b>Volume Solids</b>	: 50%
<b>VOC</b>	: 54 g / Liter
<b>Pack Sizes</b>	: 5 kg
<b>Shelf Life</b>	: One year when stored in dry and cool conditions

### APPLICATION DATA

<b>Application Tools</b>	: Roller / Brush / Spray
<b>Thinner</b>	: Clean Water
<b>No. of Coats</b>	: 3
<b>Recommended DFT</b>	: 450-500 microns
<b>Practical Coverage</b>	: 3 sqm / kg / coat
<b>Recoating Interval</b>	: 2-3 hours
<b>Drying Time</b>	: 2-4 hours (depending on weather condition)
<b>Clean-up</b>	: Clean Water

### STORAGE AND HANDLING

- Keep container closed when not in use.
- Store in a cool, dry and well-ventilated space.
- Do not transfer contents to other containers for storage.
- In case of spillage absorb with inert materials such as sand.

### SURFACE PREPARATION

- All surfaces must be clean, dry, free from dust, dirt, chalk, laitance, efflorescence, rust, grease, oil and other foreign materials.
- Allow new concrete to cure and dry completely for at least 28 days with a moisture of pH level below 10

### PERFORMANCE DATA

Tensile Strength	ASTM D412	0.96 N/mm <sup>2</sup> before QUV exposure 4.25 N/mm <sup>2</sup> after 1000 hrs QUV exposure
Elongation	ASTM D412	650% before QUV exposure 285% after 1000 hours QUV Exposure
Water Vapour Transmission	ASTM D1653-13	1.6% water vapour loss after 7 days
Water Absorption	In-house	3.0% water absorbed after 24hours
Pull-off strength	ASTM D4541-17	2.5 N/mm <sup>2</sup> 350 psi
Artificial Weathering QUV Exposure	ASTM G-154	No change in colour after 1000 hrs UVA-340 No peeling off, chalking, cracking, blisters

### PAINTING SYSTEM

	Product	Spreading Rate* m <sup>2</sup> /kg	Dry Film Thickness (DFT)
1st Coat	<b>MONDOLASTIC 900</b> (10% dilution)	3	120-150
2nd Coat	<b>MONDOLASTIC 900</b>	3	120-150
3rd Coat	<b>MONDOLASTIC 900</b>	3	120-150

### PAINTING CONDITIONS

- Mix **MONDOLASTIC 900** thoroughly to ensure a homogeneous mixture. Do not overmix to avoid foam formation.
- For consistent paint thickness, use a solvent-resistant roller such as a polyester or polyurethane type.
- MONDOLASTIC 900** can be applied on horizontal roofs with a slight slope to minimize water ponding.
- Do not apply **MONDOLASTIC 900** during rising temperature and on substrates with rising moisture.
- Ensure rain does not occur during application and drying of **MONDOLASTIC 900** to enable the membrane to fully cure to a dry seamless coating with excellent water resistance.