

MPU M05V-WP INTERMEDIATE COAT



DESCRIPTION:

M05V is a single-component polyurethane waterproofing intermediate coat, it is moisture-cured, ready-to-use liquid membrane primarily designed as a primer and bonding layer for 2 polyurethane or polyurea top coats. The formulation cures upon exposure to atmospheric moisture, forming a durable, elastic film that enhances adhesion and waterproofing performance.

FEATURES:

- **Moisture-Cured System** – Reacts with ambient humidity for easy application
- **Exceptional Adhesion** – Bonds strongly to concrete, masonry, metal, and other construction surfaces
- **Flexible & Crack-Resistant** – Accommodates minor substrate movements
- **Chemical & Water Resistance** – Provides a waterproof barrier when paired with a top coat
- **Easy Application** – Brush, roller, or spray application (no mixing required)

RECOMMENDED USES:

Roofing Systems (under PU/Polyurea top coat)
Balconies & Terraces (with protective top layer)
Parking Decks & Concrete Slabs (before final waterproofing membrane)
Basement Walls & Below-Grade Structures
Wet Areas & Waterproofing Under Tile Systems

NOTE: call our technical department about the application to other substrates or situations.

APPLICATION METHOD:

Previous preparation of the substrate according to its type. Existing holes or areas with a lack of material must be repaired. M05V can be applied as the crack filler.

Mix and stir the components using a mechanical shaker for approximately 4-5 minutes (medium speed). Apply the coats until the desired planimetry is achieved. Consumption 1.5 kg/sqm depending on the roughness of the substrates.

NOTE: For other types of substrates, weather conditions or final use, consult our technical department

TECHNICAL DATA:

| NO. | ITEM | VALUE |
|-----|---------------------------------|--|
| 1 | The weight of component A | 25 kg |
| 2 | Density of mixed resin | 1.4kg/l @23°C |
| 3 | Weight/solid | 80% |
| 4 | Volume/solid | 75% |
| 5 | Shore A | 50 (14 days / +23 °C) |
| 6 | Tensile Strength | 2.5 N/mm ² (14 days / +23 °C) |
| 7 | Elongation at break | 600 % (14 days / +23 °C) |
| 8 | Adhesive Tensile Strength | 2.5 N/mm ² (concrete) |
| 9 | Theoretical Coverage | 1.2 kg =1 sqm=1 mm |
| 10 | Ambient atmospheric temperature | Minimum +10 °C / Maximum +30 °C |
| 11 | Relative humidity of air | Maximum 80% relative humidity |
| 12 | dew point | The substrate should be at least 3° above the dew point to reduce the risk of condensation and floor cracking. |
| 13 | Substrate temperature | Maximum 80% relative humidity |
| 14 | Water content of the substrate | < 4% pbw |
| 15 | Curing time | 10 °C, 48 hours 20 °C, 24 hours. 30 °C, 12 hours. |

CONSTRUCTION NOTES:

1. **Substrate Must Be:** Clean, dry, sound, and free of dust, oil, or contaminants.
2. **Application Methods:** Brush, roller, or spray (follow manufacturer's recommended film thickness).
3. **Curing Time:** Typically 4–24 hours (depends on humidity/temperature) before top coat application.
4. **Top Coat Application:** Must apply compatible UV-resistant top coat within recommended window.

Application Timing:

- The next process (e.g., topcoat application) should be conducted after the base coat becomes tack-free.
- If the next process is delayed beyond 24 hours after the tack-free time, an additional coat must be applied.
- Reapply the coat if rain or adverse weather conditions occur after the initial application.



TDS. TECHNICAL DATA SHEET

HEALTH AND SAFETY:

Respiratory Protection:

When handling or spraying, always use an air-purifying respirator to protect against inhalation of harmful substances.

Skin Protection:

Wear rubber gloves and remove them immediately if they become contaminated. Ensure your body is fully covered with clean, protective clothing. After completing work, and before eating, drinking, or smoking, wash thoroughly with soap and water.

Eye/Face Protection:

Wear safety goggles to prevent splashes or exposure to airborne particles.

Waste Management:

Minimize or avoid waste generation whenever possible. If waste is produced, incinerate it under controlled conditions in compliance with local and national regulations.

Re-occupancy Guidelines:

Do not re-enter the work area without respiratory protection for at least 24 hours after spraying, ensuring proper ventilation is maintained.

Compliance:

Contractors and applicators must adhere to all applicable storage, safety, and handling guidelines. These safety measures are critical during the implementation process, as well as before and after exposure to loading machinery.

Waste Disposal:

Dispose of all waste in accordance with state and/or local regulations.

These precautions are essential to ensure the health and safety of all individuals involved in the process

RECOMMEND TOOLS:

The product can be applied manually using methods such as: trowel or scraper application, brushing with a short-bristle brush, or roller coating with a durable, short-nap roller. For a more efficient and even application, specialized spraying equipment can also be used.

PACKING:

25 KG/ PAIL
250 KG / PAIL

STORAGE AND TRANSPORTATION:

The product should be sealed and stored in a dry, cool, and well-ventilated area, away from direct sunlight, rain, and any sources of fire.

When kept in its original packaging and under the prescribed storage conditions, the product has a shelf life of 6 months from the date of production.

After opening the drum, please use the product as soon as possible and reseal the container when not in use.

The materials should be stacked stationary and handled carefully during transportation to avoid any violent collisions.

DISCLAIMER:

The information provided in this Technical Data Sheet (TDS) is to assist customers in determining whether our products are suitable for their applications. Our products are only intended for sale to industrial and commercial customers. We warrant that our products will meet our written liquid component specifications. The customers are advised to conduct their own tests and evaluations to ensure suitability for their intended application. Always follow local regulations, safety guidelines, and manufacturer recommendations.