

MPU P03V SINGLE COMPONENT POLYURETHANE RESIN PRIMER



DESCRIPTION:

P03V is a moisture-cured polyurethane based, high performance, solvent-borne coating liquid. It is specially designed to use as the primer on the smooth substrates of ceramic tiles, metal panels, and to provide exceptional adhesion, corrosion resistance, and surface preparation for substrates prior to the application of MPU waterproofing systems and flooring system topcoats.

FEATURES:

P03V effectively penetrates micro-pores or cracks, forms a strong adhesion with the glazed tile surface (non-porous, smooth), and it chemically bonds with polyurea or polyurethane, creating a robust adhesion layer the concrete substrate and the top coat, ensuring long-term performance and durability.

RECOMMENDED USES:

on the substrates with smooth surface, such as ceramic tiles, metal panels etc.

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

DESIGN CRITERIA:

The primer is designed for application in one coat.

APPLICATION METHOD:

Previous preparation of the substrate according to its type. Existing holes or areas with a lack of material must be repaired. General cleaning of the substrate, removing existing dust, dirt, grease or efflorescence. The substrates must be resistant and cohesive. Check the maximum degree of moisture permittivity of the substrate.

Mix and stir the components using a mechanical shaker for approximately 4-5 minutes (medium speed). Apply the resin thin crossed coats until the desired planimetry is achieved. Consumption between 0.1 and 0.2 g/sqm depending on the roughness of the substrates.

Apply the second coat as the substrate needs. Always respect the re-coat time between coats or between different materials.

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

TDS. TECHNICAL DATA SHEET



TECHNICAL DATA:

NO.	ITEM	VALUE
1	Weight	18 kg
2	Density	1.1kg/l @23°C
3	Volume/ solid	60%
4	Weight/Solid	60%
5	Hardness	Shore D 60-70
6	Bond Strength	5 MPa
7	Theoretical coverage	0.15 kg/m ² (at 0.1mm dry film thick)
8	Ambient atmospheric temperature	Minimum +10 °C / Maximum +30 °C
9	Relative humidity of air	Maximum 80% relative humidity
10	dew point	The substrate should be at least 3° above the dew point to reduce the risk of condensation and floor cracking.
11	Substrate temperature	
12	Water content of the substrate	< 4% pbw
13	Curing time	10 °C, 24 hours ~ 48 hours 20 °C, 12 hours ~ 24 hours. 30 °C, 8 hours ~ 16 hours.

CONSTRUCTION NOTES:

Mixing Instructions:

- Mix the components thoroughly for 3–5 minutes manually or mechanically, until a uniform consistency is achieved.
- The mixed primer must be applied within 30 minutes using a roller or brush.
- NOTE: Do not add any thinning agents or foreign materials to the primer.

Application Timing:

- The next process (e.g., topcoat application) should be conducted after the primer becomes tack-free.
- If the next process is delayed beyond 24 hours after the tack-free time, an additional coat of primer must be applied.
- Reapply the primer 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.

RECOMMEND USAGE:

Normally, it is about 0.15 kg /m², and the thickness of one-time construction is 0.1 mm.

PACKING:

18 kgs/ pail

STORAGE AND TRANSPORTATION:

The primer 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.