

ARMOPRIME PU

Solvent Free High Build Polyurethane Primer

Description:

ARMOPRIME PU is a two component solvent free low viscosity polyurethane based primer, with excellent features of adhesive bond between the substrate and the epoxy or polyurethane floor coating. ARMOPRIME PU adheres to a variety of substrate and has an excellent anti-corrosive characteristics. It is utilized as an integral primer for high build PU flexible flooring systems, as it features flexible high quality primer and base coat for subsequent layers.

Applications:

ARMOPRIME PU is used as an adhesion coat on supports like steel, concrete, ceramics, plastic, before applying protective systems or waterproofing systems. Some applications include:

- Floors requiring high bonding strength.
- Flooring systems to sustain high level of flexibility (mainly PU systems).
- Sophisticated systems of Polyurethane and Epoxy high abrasion and impact resistance systems.
- Stand-alone product high abrasion resistant sealer and UV resistant.
- Malls, warehouses with high movement.

Advantages:

- Excellent penetration to substrate.
- Excellent mechanical properties.
- Excellent water resistance.
- Flexible PU layer.
- Glossy, clear and highly functional as a top coat on concrete coloured flooring systems.
- Excellent adhesion to concrete, timber, granolithic screeds, masonry paving, mild steel etc.

Instructions for Use:

Surface Preparation:

All surfaces should be sound, clean, dry and free from loose material, efflorescence, laitance, curing

compounds, dirt, oil and grease. Ensure that concrete floors are fully cured, and have moisture content less than 5%.

Prepare surface utilizing mechanical preparation method: Grinding, captive blasting, sand blasting in order to provide suitable profiled open texture surface. If the substrate is restricted to access, utilize preparation by handy mechanical tools.

All repairs to cracks, levelling of floor; voids filling should be completed by LAVAPOXY and LAVAPOXY FINISH, epoxy based repair products. Once the repair is completed allow the product to cure then remove the dust from the surface. Metal surfaces must be perfectly cleaned up to the white metal by sand blasting. Consults MATEX Technical Department for further advice.

Mixing:

ARMOPRIME PU must be mixed mechanically with low speed drill mixer fitted with suitable paddle. To prepare the mix, add the contents of Part B (hardener) to Part A (base) container, and mix for minimum of 3 minutes till obtaining a homogeneous mix. Do not mix partially the base and the hardener, and mix the complete kit at a time.

Application:

Apply ARMOPRIME PU with brush, roller or spray machine, apply to substrate in rich amount to ensure proper penetration and coverage of the surface. The recommended application rate varies between 4 to 6 m²/Lt, dependent on the porosity of substrate. For very porous substrate apply two coats of ARMOPRIME PU. If the primed surface is not over coated with the subsequent product within 24 hours, a fresh coat of primer has to be applied again. For metal supports it is necessary to apply ARMOPRIME PU as soon as possible after the sandblasting in order to avoid the oxidation process start again.

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Standards:

ARMOPRIME PU conforms to:

- ASTM C 109, ASTM C 1042, and ASTM C 191

TECHNICAL PROPERTIES

Appearance	:	Fluid Liquid
Color	:	Transparent
Density	:	1.10± 5% Kg./Lt.
Pot life time at 25°C	:	60 minutes
Compressive Strength	:	75 N / mm ²
Flexural Strength	:	50 N / mm ²
Dry Residual	:	100%
Hardening at 25°C	:	8 hours
Completely Hardened	:	7 days
Viscosity	:	1500 – 2000 Mpa.S
Bonding Strength	:	Greater than cohesive strength of concrete substrate

Coverage:

ARMOPRIME PU achieves coverage of 9-10 square meters @ 100 micron Film thickness.

Coverage is calculated based on standard lab condition; consumption might vary according to surface porosity and wastage of material at application.

Packaging:

ARMOPRIME PU is available in 4 and 15 liter dual metallic containers.

Storage:

Store in original packing in dry conditions away from direct sunlight in temperature controlled warehouse.

Shelf Life:

ARMOPRIME PU can be utilized within 12 months of production date if stored in proper conditions in unopened original packing.

Cleaning:

Clean tools and equipment with ARMOSOLVENT before material harden.

Health and Safety:

- Use goggles and gloves during application.
- Ensure adequate ventilation at site and avoid inhalation of vapours.
- Avoid contact with eyes or skin.
- Treat any splashes to the skin or eyes with fresh water immediately. Should the product be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

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This technical data sheet is not considered as local building codes. It shall be used as general reference for the product, based on our current knowledge and experience. However the company do not accept any liability arising from the use of its products as it has no direct control on how and where the product is applied.

