

# ARMOPRIME PU

## Solvent Free High Build Epoxy Primer

### Description:

ARMOPRIME PU is two-component, moisture tolerance, solvent free, low viscosity epoxy resin-based primer, with excellent features of adhesive bond between the substrate and the epoxy or polyurethane floor coating. ARMOPRIME PU is designed for application to open pored damp surfaces including concrete masonry, wood, metal and damp concrete. It is utilized as an integral primer for high build flexible epoxy-polysulfide and polyurethane coating flexible flooring systems.

### Uses:

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

- Floors requiring high bonding strength.
- Polyurethane based car park coatings, wall and floor coatings, self levelling systems and screeds.
- As a scratch coat for floors after mixing with graded Quartz sand.
- Sophisticated systems of Polyurethane and Epoxy high abrasion and impact resistance systems.

### Advantages:

- Universal, high quality primer
- Tolerant to damp surfaces, preventing swelling risk and pinholes in the surface of coating materials.
- Excellent penetration to substrate, blocking the capillary pores.
- Excellent mechanical properties.
- Excellent water resistance.
- Excellent adhesion to concrete, timber, granolithic screeds, masonry paving, mild steel etc.

### Instructions for Use:

ARMOPRIME PU should be applied by specialist contractors who must follow the Product Method Statement. Consult with MATEX Technical Department for a list of approved applicators.

### 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.

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. Consult 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. 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 8-10 m<sup>2</sup>/lt, dependent on the porosity of substrate. For very

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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.

## Standard:

- ASTM D4541

TECHNICAL PROPERTIES	
Appearance	Liquid
Color	Amber
Density	1.00± 0.03 kg/lit
Viscosity	300 – 700 Mpa.S
Pot life time at 25°C	>40 minutes
Hardening at 25°C	8-24 hours
Completely Hardened	7 days
Application Temperature	+5°C to 40 °C
Bonding Strength (ASTM D4541)	>2.5 N/mm <sup>2</sup> (cohesive failure within concrete)

\*Values indicated may vary depending on the environment and conditions of the material. Figures given are tested according to standard laboratory conditions.

## Coverage:

ARMOPRIME PU achieves coverage of approx. 8-10 square meters @ 100 micron film thickness per liter.

\*Coverage rate is an approximate value, and subject to actual site conditions.

## Packaging:

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

## Storage:

Store in original packing in dry conditions away from direct sunlight in temperature controlled warehouse. Store at +15°C to 25°C

## Shelf Life:

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

## Cleaning:

Clean tools and equipment with ARMOSOLVENT before material hardens. Hardened material can only be removed mechanically.

## Health and Safety:

- Avoid contact with eyes and skin. Wear suitable protective clothing such as coveralls, goggles, dust mask and gloves. Use barrier cream. Ensure that there is adequate ventilation. Do not breathe vapour or spray mist.

## FIRST AID:

**Eyes:** In the event of accidental splashes, flush with warm water and seek medical advice.

**Skin:** Wash skin thoroughly with soap and water

**Inhalation:** Remove to fresh air, keep patient rested

**Ingestion:** Do not induce vomiting. Seek immediate medical attention.

For further safety information, please refer to ARMOPRIME PU Material Safety Data Sheet.

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