Technical Data Sheet

ARMOPRIME EP100

Two Parts Solvent Free Epoxy Primer

Description:

ARMOPRIME EP100 is a two-component solvent free low viscosity epoxy primer. It has an excellent adhesive bond between the substrate and the epoxy or polyurethane floor coating. The primer adheres to a variety of substrate and has an excellent anti-corrosive characteristic.

Uses:

ARMOPRIME EP100 is used as an adhesive coat on supports like steel, concrete, ceramic, before other protective or waterproofing systems are applied:

- Floorings requiring high bonding strength.
- Sophisticated systems of polyurethane and epoxy.
- High abrasion and impact resistance systems.
- Can be used with various MATEX floor and wall coatings

Advantages:

- Excellent penetration to substrate.
- Excellent mechanical properties.
- Excellent water resistance.
- Glossy, clear and highly functional as a top coat on concrete colored flooring systems.
- Excellent adhesion to concrete, timber, granolithic screeds, masonry, paving, 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; such as grinding, captive blasting, sand blasting, in order to provide suitable profiled open texture surface. If the substrate is restricted to access, utilise preparation by handy mechanical tools.

All repairs to cracks, levelling of floor, filling voids 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 EP100 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 complete kit at a time.

Application:
Apply ARMOPRIME EP100 with brush, roller or spray machine. Apply to substrate in rich amount to ensure proper penetration and coverage of the surface. The application rate varies between 8 to 10 m²/Lt., dependent on the porosity of substrate. For very porous substrate, apply two coats of ARMOPRIME EP100. 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 EP100 as soon as possible after the sandblasting in order to avoid the oxidation process to start again.

Standards:

- ASTM D4541, ASTM C579, ASTM C580

TECHNICAL PROPERTIES	
Appearance	Liquid
Color	pale
Density	1.40 ± 0.03 kg/lit
Viscosity at 25°C	700-1200 cps

ARMOPRIME EP100

Dry Residual	100%
Pot-life time at 25°C	60 minutes
Hardening at 25°C recoat interval	12 hours
Completely Hardened	7 days
Bonding strength (ASTM D4541)	>2.0 N/mm^2 (greater than cohesive strength of concrete substrate)
Compressive Strength (ASTM C579)	70 N/mm^2
Flexural strength (ASTM C580)	15 N/mm^2

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

Coverage:

ARMOPRIME EP100 achieves coverage of 8-10 square meters @ 100 micron film thickness.
*Coverage rate is an approximate value, and subject to actual site conditions.

Packaging:

ARMOPRIME EP100 is available in 4 and 15 liter duel metal containers.

Storage:

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

Shelf Life:

ARMOPRIME EP100 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.

Remarks:

- Do not apply ARMOPRIME EP100 when the humidity exceeds 80%.
- Make sure that the substrate temperature is higher than 5°C.
- The curing time of ARMOPRIME EP100 is influenced by the weather conditions.
- At high temperatures, chemical reactions are speeding up thus shortening the potlife, open time and the curing times.
- ARMOPRIME EP100 should not be applied on surfaces with a risk of rising dampness.
- Incorrect assessment treatment of cracks may lead to reduced service life and reflective cracking.

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 EP100 Material Safety Data Sheet.

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