

## ARMOPRIME EP70

### Solvent Base Epoxy Primer

#### Description:

ARMOPRIME EP70 is a two component solvent based low viscosity epoxy primer. It provides adhesive bond between the substrate and the epoxy or polyurethane floor coating systems. ARMOPRIME EP70 adheres to a variety of substrate and has an excellent anti-corrosive characteristics.

#### Uses:

ARMOPRIME EP70 is used as an adhesion coat on supports like steel, concrete, before other protective or waterproofing systems:

- Floorings requiring high bonding strength.
- Polyurethane and epoxy systems with high abrasion and impact resistance requirements.
- Malls, warehouses with high movement.
- Carparks, stores.

#### Advantages:

- Excellent penetration to substrate.
- Excellent mechanical properties.
- Excellent water resistance.
- High bonding strength.
- 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, utilise 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 EP70 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 EP70 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 6-8 square meters/lit depending on the porosity of substrate. 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 EP70 as soon as possible after the sandblasting in order to avoid the oxidation process to start again.

| TECHNICAL PROPERTIES              |                                                           |
|-----------------------------------|-----------------------------------------------------------|
| Appearance                        | Liquid                                                    |
| Color                             | Amber                                                     |
| Density                           | 1.0 ± 0.03 kg/lit                                         |
| Pot-life time at 25°C             | >60 minutes                                               |
| Dry Residual                      | 70%                                                       |
| Hardening at 25°C recoat interval | 8-24 hours                                                |
| Application Temperature           | +5°C to +40°C                                             |
| Bond Strength                     | >2.0 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.

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## Coverage:

ARMOPRIME EP70 achieves coverage of 6-8 square meters @ 100 micron dry Film thickness.

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

## Packaging:

ARMOPRIME EP70 is available in 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 EP70 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 EP70 when the humidity exceeds 80%.
- Make sure that the substrate temperature is higher than 5°C.
- The curing time of ARMOPRIME EP70 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 EP70 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 vapor or spray mist. The product is flammable, keep away from sources of ignition. DO NOT SMOKE. Take precautionary measures against static discharge.

## 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 EP70 Material Safety Data Sheet.

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