

EAMIPROOF AR 600

Fluid Applied Elastomeric Acrylic Waterproofing and Anticarbonation Membrane

Product Description

EAMIPROOF AR 600 is a one part protective, decorative, anti-fungus, non toxic, acrylic based waterproofing & weatherproofing liquid membrane. It is designed to provide a high degree of elasticity and high adhesion to most substrates. The cured membrane provides high elongation with a high crack bridging ability. It is produced in three grades :EAMIPROOF AR 600 External , EAMIPROOF AR 600 Internal & EAMIPROOF AR 600 Texture.

Typical Applications

EAMIPROOF AR 600 is used as a waterproofing membrane & weatherproofing coating in:

- Concrete bridges & tunnels.
- Floors: Under and/or above screed to provide a damp proof membrane.
- Basements: As a part of a water-proofing system beneath ground level.
- Walls: Under and / or above render or plaster as a water and CO₂ barrier.
- Roofs: As the main waterproofing coat or as part of a repair system.
- Tiling: As a protection coat under tiles in wet areas, bathrooms, food processing areas, balconies ... etc.)
- EAMIPROOF AR 600 can be used also as a gas barrier to minimize carbon dioxide & methane attack (as part of anti carbonation system)
- As an optimal weather protection system for concrete surfaces in conjunction with EAMIGARD SA 80& EAMIGARD PRIME SEAL (please review separate data sheet)

Product Features

- Highly resistant to carbon dioxide penetration.
- Can be applied to damp surfaces.
- Easy to use by brush roller or spray.
- Non toxic.
- Non hazardous, water base product.
- Environmental friendly.
- Provides high resistance to the effects of weathering and U.V. degradation.
- High flexibility and excellent crack bridging properties.
- Good adhesion to concrete.
- Non - staining.
- Quick drying.

Standards

EAMIPROOF AR 600 is tested according to the following: BS 8204 Part 3, Method B3. BS 903 Part A17 & Part A2 BS 6319 Part 4, BS 3177 & ES 1539 & EN 1062



Tunnel in Giza

Technical Properties

Color	White, grey, other colors could be produced upon request.
Appearance	Viscous liquid
Specific Gravity	1.40 ± 0.05 @ 2
Minimum Application Temp.	+ 7°C
pH	8 - 10
Barrier Properties	Resistance to Water Penetration (Positive Head Pressure): a 600 micron thick dry film thickness of the membrane tested for 24 hours at 20 meters water head shows no water penetration on substrate. Water vapor permeability:< 4g /m ² /24 hours @ 25°C &75% RH determined to BS 3177 : "Method for determining permeability to water vapor of flexible sheet materials. Carbon Dioxide Permeability: Resistant to Carbon Dioxide penetration".
Mechanical Properties	
Tensile Strength	2.7 N/mm ²
Elongation	350%
Crack Bridging	At least 2 mm. @ 23°C
Shore Hardness (Shore A) 70	
Adhesion Properties	To Concrete :2 N/mm ² To Steel : 2 - 3 N/mm ²
Slant Shear	33 N/mm ²
Dry time	30 min ± 10 min
Carbon Dioxide Resistance	Pass (0.48 g/m ² / day) according ES 1539
Weather resistance	Pass (0.48 g/m ² / day) according ES 1539
U.V Resistance	Pass (ultraviolet 200 hr no sign of color change or cracks)

Guide for Application Surface Preparation

All surfaces should be clean, structurally sound, free from standing water, oil, dust, grease and all loosely adhering particles that could maximize the bond between the substrate & EAMIPROOF AR 600. Irregular surface should be leveled with EAMIC CEMENT PUTTY to reach a levelled surface.

Application

EAMIPROOF AR 600 may be applied by stiff brush, roller or airless spray (compressed air supply pressure 506N/mm² and compression ratio 28: 1). Tip size 0.64 mm.

Stir the product well before application. Apply the first coat and allow becoming tacky before applying the second coat.

At high stress points such as wall/ floor junction, it is beneficial to use fabric reinforcement of thickness approximately 0.50mm.

Such reinforcement should be made from polypropylene or polyester avoiding use of nature fibers.

The incorporation of fabric usually increases the tensile strength.

The fabric is rolled into the wet first coat and then coated with additional coats after allowing the first coat to become tacky.

Primer

After levelling the surface, apply a primer coat of COLOR PRIME or EAMIGARD PRIME SEAL.

Warranty

We warrant our products to be of good quality & manufactured to rigid standards. This Warranty is in lieu of any & all other warranties expressed or implied.

This data sheet is published for information only. It is believed to be correct but no liability is accepted for it or the suitability of the product for any particular purpose. EAMIC TRETOL services are free & the company does not accept liability for any loss arising from it. Max liability is limited to substituting the same quality of material.

Cleaning

Clean all the tools equipment after use immediately with water.

Coverage

This will be influenced by the design for use as well as by the substrate conditions:

- **As a waterproofing membrane** coverage 1-1.25m²/kg at recommended dry film thickness (WFT) @ 600 microns.
- **As a weatherproof within a protective coating system** coverage 3.5 m²/kg at a dry film thickness (WFT) @ 200 microns.

Packaging

EAMIPROOF AR 600 is supplied in well sealed 20 kg packs.

Storage

EAMIPROOF AR 600 should be kept in a dry store in the original unopened containers away from extreme temperatures.

Shelf Life

One year if stored properly in its original well closed container.

Health & Safety

- EAMIPROOF AR 600 is non flammable and non toxic. Any splashes on skin should be washed with water.
- Seek medical assistance in case of contact with eyes after washing it with running water.

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