

EAMIALUBOND EP

Solvent Free, Moisture Insensitive Polyamide Curing, Epoxy Resin Based Bonding

Product Description

EAMIALUBOND EP is two component, solvent free, medium viscosity, moisture insensitive polyamide curing epoxy resin-based bonding agent. After mixing and application, it will provide a non-sag film that enables to adhere most substrates including aluminum, steel, wood and concrete.

Typical Applications

EAMIALUBOND EP is high modulus, polyamide curing agent epoxy resin based bonding agent for transportation and automobile industries.

- Bonding of foam and aluminum sheet or sandwich elements.
- Bonding of plywood with aluminum sheets.
- Bonding of glass with metal.
- Bonding of metal to metal including aluminum.

EAMIALUBOND EP can be used as an adhesive for the building industry and metal construction :

- Bonding of precast concrete.
- Bonding damp materials in particular fiber cement.
- Bonding rubber flooring to concrete.

Product Features

- Easy to use and to apply.
- Excellent bonding film.
- Solvent free.
- 100% solid, so no risk of shrinkage.
- Moisture insensitive.
- Resistant to chemical attack.
- Excellent mechanical properties.
- Good flexibility.
- Formulated to be suitable for the Middle East climates.

Standards

EAMIALUBOND EP complies with the requirements of ASTM C 881 Type I, II & IV Grade 2, Class B and C

Guide for Applications

Surface Preparation

All surfaces should be sound, clean and free from dust, oil & grease and the other contaminants, which may affect the bond between the substrate and the product. Cement laitance shall be removed and the surfaces to be treated should be mechanically roughened.

The concrete should be 21 days of age at least.

Technical Properties

Appearance	Off white – yellow medium viscosity liquid (mixed materials).	
Specific Gravity @ 25°C	1.40 ±1	
Full Cure	7 days @ 20°C , 5 days @ 35°C	
Pot Life @ 30°C	70-90 minutes	
Minimum Application Tempe.	+5°C	
Tensile Strength	28 N/mm ²	(ASTM D-638)
Elongation at break	1-3%	(ASTM D-638)
Hardness, Shore D	80-90	(ASTM D-2240)
Bond Strength (mean shear slant)	Cured 14 days	
- On dry concrete (ASTM C-882)	1.5 N/mm ²	
- On steel (ASTM C-882)	3 N/mm ²	
Linear Coeff. of Shrinkage	0.005 cm/cm	(ASTM C-844)
Flexural Strength	15 N/mm ²	(ASTM D-790)
Compressive Strength	50-60 N/mm ²	(ASTM D- 695)
Water Absorption	0.3 % after 1 day	(ASTM D- 570)

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Priming is not required.

Mixing

Stir both components A and B before mixing. The contents of curing agents (Component B) should be emptied carefully into the resin (Component A) container and both two components should be well mixed thoroughly till a uniform colour is obtained.

Application

After mixing, apply directly to the prepared substrate by suitable brush.

Cleaning

Epoxy Materials are very difficult to remove when set. Clean tools and equipment immediately after use with EAMIC SOLVENT .

Coverage

At thickness 2 mm, the coverage is about 0.3 m²/kg.

Packaging

EAMIALUBOND EP is supplied in two pre-weighed packs of 5 kg total.

Storage

EAMIALUBOND EP should be stored away from direct sun.

Shelf Life

One year when stored in its original unopened package.

Health and Safety

- Epoxy resins contain irritants, especially to the skin, eyes and respiratory system.
- Persons handling these materials should use appropriate protective clothing, including rubber or plastic.

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 .

EAMIC TRETOL

Leaders in Construction Chemical Technology

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