

LAVABOND EP

Epoxy Bonding Agent

Description:

LAVABOND EP is a two component solvent free low viscosity epoxy bonding agent. It has an outstanding adhesive bond to ensure a structural bonding between the concrete substrate and the freshly casted concrete.

Uses:

LAVABOND EP is a superior bonding agent that can be used when high quality bonding feature is needed or when the area suffers from harsh environment effects. Some applications include:

- Casting of damaged industrial flooring.
- Structural casting resumption between fresh and old concrete, casting resumption of damaged industrial flooring.
- As a superior bonding agent for Casting of screed especially in car parks area.
- Sealing of cracks or fissures of cement screeds concrete.
- Bridges, pavements loading bays and factories.

Advantages:

- Excellent penetration to substrate.
- Excellent mechanical and bonding properties.
- Excellent adhesion to concrete.
- Adhesive bond to concrete will always exceed the tensile strength of the host concrete.
- Can be used in closed places as it is solvent free.
- Impermeable and non-shrinks after curing.
- It adheres perfectly to various construction material.
- Resistant to most alkalis and diluted acids.
- Used for internal and external applications.

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 surface is fully cured. Apply sand blasting or mechanical preparation means for the surface prior to application to ensure a proper mechanical grip for the surface, to ensure best adhesion of material. Necessary repairs to cracks, levelling of floor; filling voids by means of epoxy based repair products should be performed. Consult MATEX Technical Department for further advice.

Mixing:

LAVABOND EP is composed of two components that must be mixed well before use. For the preparation of mixture, pour component B (hardener) into component A (resin) and mix for 3 minutes with a drill at low number of turns (200–300 rpm) until obtaining a homogeneous consistency.

Application:

Apply LAVABOND EP 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 to 7 m²/Lt., dependent on the porosity of substrate. For very porous substrate apply two coats of LAVABOND EP. Concrete or screed must be casted while the bonding agent is still tacky, but not wet. Do not allow the bonding agent to dry. If the applied bonding agent dried, then remove mechanically and apply a fresh coat of LAVABOND EP.

Standards:

- ASTM C881 type IV, grade 2, class C
- ASTM D695, D638, D570, C579

TECHNICAL PROPERTIES	
Appearance	Liquid
Color	Blue
Density	1.30 ± 0.03 kg/lit
Viscosity	1000-2000 cps

LAVABOND EP

Potlife time at 25°C	60 minutes
Temp. of Application	+5°C to +35°C
Complete Hardening	7 days @ 30°C
Adhesion Strength (ASTM C1881 part 207)	>2.8 N/mm ²
Compressive Strength (ASTM C579)	>70 N/mm ²
Tensile Strength (ASTM D638)	>45 N/mm ²
Dry Residual	100%
Slant Shear Strength (ASTM 881)	>14 N/mm ²
Water Absorption (ASTM D570)	<0.05 %
Maximum Overlay Time	20 hours @ 25°C
Linear Coefficient of Shrinkage on Cure	0.004

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

Coverage:

LAVABOND EP achieves coverage of 6-7 square meters per liter @ 150 micron (WFT) Wet Film Thickness.

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

Packaging:

LAVABOND EP is available in 4 Liters dual metal containers

Storage Conditions:

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

Shelf Life:

LAVABOND EP can be utilized within 12 months of production date if stored in proper conditions in unopened original packing.

Cleaning:

Clean tools and equipment with ARMOSOLVENT before material hardens. Hardened materials 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 LAVABOND EP Material Safety Data Sheet.

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