

# 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.

### Applications:

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.
- Suitable for use where concrete remains wet.
- Impermeable and non-shrinks after polymerization.
- 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 paste.

#### 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 4 to 6 m<sup>2</sup>/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. 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:

LAVABOND EP conforms to:

- ASTM C881, ASTM D695, ASTM D638, ASTM D570
- BS 6319

#### Coverage:

LAVABOND EP achieves coverage of 6-8 square meters @ 150 micron (WFT) Wet Film Thickness.

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## Storage Conditions:

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

## Cleaning:

Clean tools and equipment with SOLVENT before material harden.

## Shelf Life:

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

## Health and Safety:

- Use goggles and gloves during application. Do not breathe vapor of products.
- Avoid contact with eyes or skin.
- In case of eye contact, flush thoroughly with plenty of water and seek immediate medical help.

TECHNICAL PROPERTIES	
Appearance	: Liquid
Color	: Green
Density	: 1.15± 5% Kg./Lt.
Pot life time at 25°C	: 90 minutes
Compressive strength	: 70 N / mm <sup>2</sup>
Tensile Strength	: 28 N / mm <sup>2</sup>
Dry Residual	: 100%
Adhesion Strength	: 3.5 N/mm <sup>2</sup>
Shear Strength	: 33 N / mm <sup>2</sup>
Temp. of Application	: +5°C to +35°C
Complete Hardening	: 5 days @ 30°C
Water absorption (ASTM D570)	: <0.05 %
Maximum Overlay Time	: 20 hours @ 25°C

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This technical data sheet is not considered as local building codes. It shall be used as general reference for the product, based on our current knowledge and experience. However the company do not accept any liability arising from the use of its products as it has no direct control on how and where the product is applied.

