



Technical Data Sheet

Ecobond EP Epoxy Bonding agent

Description

Ecobond EP is a two component, solvent free epoxy resin bonding agent, supplied in pre-weighed packs containing base and hardener. **Ecobond EP** is especially designed to bond fresh to old concrete or cementitious materials

Applications

Ecobond EP is a permanent epoxy adhesive for bonding fresh wet concrete/cementitious material to old concrete/cementitious surfaces, which is suitable for internal and external application.

Advantages

- High bond strength.
- Moisture tolerant; can be applied to damp surfaces.
- Slow cure, allows more time for subsequent works such as fixing steel reinforcements and erecting shutter.
- High strength.

Technical properties

Full cure:	7 days at 25°C 5 days at 35°C
Minimum overlay time:	After 2 hours or when become tacky.
Specific gravity @ 25°C:	1.18 ± 0.02
Application temperature	+5°C to +35°C

Method of Use

Substrate Preparation

The Substrate should be sound, clean and free from contamination. Surface Laitance should be removed by acid etching or light grit blasting.

Oil, grease, and fat deposit should be removed by using either appropriate degreaser or steam cleaning. Weak or deteriorated concrete should be removed by scrubbing, chipping or grit blasting.

Mixing

The base and the hardener should be mixed separately before mixing together to disperse any settlement. Carefully transfer the entire contents of the hardener container into the base component container and thoroughly mix using slow speed drill with appropriate mixing paddle for 3 minutes until uniformity is obtained. Do not attempt to mix partially nor add any thinning materials.

Application

Ecobond EP should be applied immediately after mixing using a short haired paint brush. The material should be painted evenly across the whole surface and left for at least two hours or until it become tacky before the new concrete, screed or mortar is placed.

Care should be taken to apply the new concrete, screed or mortar within the overlay time specified in Technical Properties. Failure to do so will have an adverse result and the material will form a de-bonding plane rather than a bonding coat.

- Minimum application temperature is 5°C while temperatures exceeding 35°C will decrease pot life and setting time.
- Application should not be carried out when atmosphere humidity exceeds 90%, or when the surface to be coated is less than +3°C above the dew point
- Do not expose packing to the direct sunrays

Storage

12 months when stored properly in unopened container in dry conditions at temperature between 10 - 25°C.

Notes:

If temperature of the material is less than 12°C, it is needed to elevate their temperature to 25°C before the application.

And if the ambient and the substrate temperature is less than 5°C, don't use the material.

Also, at high temperatures (35°C and above), cooling the material is needed before the application. And try not to make the application in the middle of the day or under direct sunlight.

Disclaimer:

We hope that the information herein will be helpful. The data is based upon knowledge considered to be accurate and true and is offered for the user consideration, investigation and verification in the application intended. We do not warrant the results or performance attained due to the nature of the influence of other constituent components in the application.



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Theoretical Coverage

Approximately 3.5 – 4.0 m²/ L depending on surface porosity

Cleaning

All tools shall be cleaned immediately after application using **Envirocon -Solvent**. Hardened materials must be cleaned mechanically.

Packaging

Ecobond EP is available in 4.0 liters/kit

Cautions

Health and safety

Avoid skin and eye contact by wearing overalls, gloves, goggles, and air-mask etc. Spillage on skin should immediately be removed by thorough washing with water and soap or suitable cleaner. Eye should be flushed with fresh water.

Avoid inhalation of vapors and paint mist by wearing suitable air-mask. In the event of ingestion and eye contact, seek medical attention immediately. Painting must be carried out in well-ventilated area.

Smoking in the area should not be permitted. Local safety regulations should be followed.

Fire

Ecobond EP is non-flammable.

E n v i r o c o n C o n s t r u c t i o n P r o d u c t s L L C

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