

Rhinobond[®] EP

Two Component Epoxy Based Bonding Agent for Concrete & Repair

• **Description**

Rhinobond EP is a two component epoxy resin bonding agent for concrete & repair. It gives strong bonding between old concrete & new concrete.

• **Features / Advantages**

- It has excellent adhesive strength. The bond strength exceeds the tensile strength of concrete
- Can be applied to dry and damp surfaces
- High mechanical strength.
- Ready to mix and use at site
- Gives sufficient pot life
- Ideal for extension and repair to structural concrete

• **Typical application**

- Used for bonding cementitious material to existing cementitious surface.
- Used for vertical and horizontal surface where mortar and concrete can be supported by foam-work for jacketing.
- Can be used for critical repairs and extensions of structural concrete in factories, loading bays, bridges, roads, concrete structures etc.

• **Technical Information**

Property	Standard	Results
Appearance Part I		White thick Liquid
Appearance Part II		Green viscous liquid
Mixing Ratio		65:35 by weight
Pot life at 25°C		Minimum 60 minutes
Setting time at 25°C		4 to 5 hrs
Curing time at 25°C		24 hrs
Compressive strength N/mm ²	ASTM-C 881-78, Type 3, grade 1, class B or C	> 57
Flexural strength N/mm ²		> 38
Tensile strength N/mm ²		> 28

Methods of Application

Surface Preparation

Surface Preparation

The surface has to be clean from dirt, grease, oil. After removing all the dust with water; do not allow water to collect on the surface where Rhinobond EP has to be applied.

Application

Mix part 1 and part 2 thoroughly till homogeneous with low speed mechanical stirrer. Mixed material should be brush applied on the prepared surface. It should be coated approximately at the rate of 20-25 sq.ft./kg depending upon the substrate. Concrete has to be placed on Rhinobond EP within 6-7 hrs.

Precautions

- Mix part 1 and part 2 thoroughly till homogeneous
- Material should be handled with gloves
- When it falls on the skin, use plenty of water & soap to wash the skin
- When it is splashed on to the eyes, wash eyes with plenty of water and take medical advice

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Consumption

20-25 sq.ft./kg



Packing

1 kg.



Cleaning of Tools & Equipments

Tools and equipment should be cleaned with suitable solvent immediately after use.



Storage and Shelf life

Store in a cool dry place under shed away from heat. Shelf life is Two year in original unopened conditions. Protect the material against moisture and direct sunlight. Storage temperature: 20 to 30°C.

Ecology, Health and Safety

Health & Safety instructions, all chemicals should not come in contact with skin and eyes or be swallowed. Protective gloves and goggles should be worn.

If contact with skin occurs, wash well with soap and water.

Eye contamination should be washed thoroughly with clean water and medical advice sought. If swallowed seek medical attention immediately. Do not induce vomiting.

Disclaimer

The technical data contained herein is based on our present knowledge and experience and we cannot be held liable for any errors, inaccuracies, omissions or editorial failings that result from technological changes or research between the date of issue of this document and the date the product is acquired. Before using the product, the user should carry out any necessary tests in order to ensure that the product is suitable for the intended application. Moreover, all users should contact the seller or the manufacturer of the product for additional technical information concerning its use if they think that the information in their possession needs to be clarified in any way, whether for normal use or a specific application of our product.

Our guarantee applies within the context of the statutory regulations and provisions in force, current professional standards and in accordance with the stipulations set out in our general sales conditions.

The information detailed in the present technical data sheet is given by way of indication and is not exhaustive. The same applies to any information provided verbally by telephone to any prospective or existing customer.



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