



TECHNY CHEMY

TEC[®] BOND EPO
Epoxy Bonding Agent



KEY BENEFITS AND FEATURES

- Outstanding compatibility with concrete and masonry.
- Can be used to bond new concrete to old in both dry and wet conditions.
- High shear strength makes it the product of choice in vertical bonds between old and new concrete.
- Bond strength being higher than tensile strength of normal concrete helps make the old and new structures monolithic.
- Modifiable overlay time- can be supplied with modified overlay time up to 6 Hours allowing delayed placement of concrete.
- Can be used for bonding concrete to concrete, mortars and steel.

USAGE

- Ideal for structural applications like extension of roof slab, extension of columns and beams, etc.
- Ideal bonding agent for vertical bonding of old concrete columns and walls to new concrete.
- Most suited for repairs of spalled concrete columns, beams and all kind of concrete structures.
- Can be used for bonding structural steel to new concrete or mortar.

DIRECTIONS FOR USE

Surface Preparation : The surface should be sound, free from dirt, oils and greases. The surface to be bonded should be thoroughly cleaned by wire brushing. Surface should be washed thoroughly to be free of fine dust and then dried. In case of oil/ grease contamination the same should be removed by thorough detergent washing followed by washing with clean water.

Mixing : Tec Bond EPO is a two component system supplied in pre- weighed containers. For consistent results it is recommended that the entire contents of each component be mixed in one go. Mixing may be carried out using a slow speed drill attached with a mixing paddle. Mixing should continue until the resultant mix is homogenous and of uniform colour. In case of applications at temperatures below 10°C consult Techny Tech Team.

Application : The mix must then be applied on the prepared concrete surface with a stiff bristled brush ensuring uniform spread and avoiding puddles or air bubbles. Placement of concrete can commence after ten minutes of application and should be completed within the overlay time. Overlay time will largely depend on the ambient conditions. In case of long haul applications consult Techny Tech Team for detailed assessment of the conditions. New concrete placement should not continue if the bond coat becomes tack free dry. An additional coat should be applied before continuing with concrete placement.

Post Application : The bond coat will attain full cure properties in 7 days.

Cleaning : Tools and equipments should be cleaned with Tec Nova TC- Tool Cleaner when the mix is in uncured state. Cured mix can only be removed mechanically.

Precautions : Direct contact with skin or eyes should be avoided. Use of gloves, goggles and other protective gear is mandatory. In case of accidental eye contact thorough water washing is advised. This should be followed up with professional medical assistance. Neither the individual components nor the mix should be swallowed. Mixing of Tec Bond EPO should be not carried under direct sunlight. The material is highly inflammable. Smoking should be prevented during mixing and application.



Certified:
ISO 9001 (QMS) & ISO
14001 (EMS)



TECHNICAL DATA

	Normal Setting	Long Overlay Time
Physical State	Part- A- Liquid Part-B- Liquid	Part- A- Liquid Part-B- Liquid
Mix Design	Part A-2: Part B-1	Part A-2: Part B-1
Pot Life at 30C	30-45 Minutes	150-240 Minutes
Overlay time	60-70 Minutes	3-6 Hours
Initial Cure	24 Hours	24 Hours
Final Cure	7 Days	7 Days
Flexural Strength after 7 days in N/mm ²	35	35
Tensile Strength after 7 days in N/mm ²	15	15
Compressive Strength after 7 days in N/mm ²	50	50
Shear Strength after 7 days in N/mm ²	10	10
Storage	Store in cool, dry location	Store in cool, dry location
Shelf Life	Maximum of 1 year from date of manufacture in unopened package	
Colour of Mix	Off White	Off White
Coverage, for One coat on normal surface	2.5 SqM/Kg of Mix	2.5 SqM/Kg of Mix

PACKAGING

Available in: 1Kg & 6Kg.

OTHER PRODUCTS

Techny manufactures lot more range of other products for construction and repair applications. They include admixtures for concrete, mortars, block making etc, waterproof and damp proof coating systems, Repair and rehabilitations products, Grouts and Anchors, Protective, Decorative and Corrosion prevention coatings, Epoxy Flooring systems, Industrial flooring systems and Tiling aids. For more details refer Separate Product brochures.

Every reasonable precaution is taken in the manufacture of the Techny products to ensure that they comply with high standards of quality. The recommendations and properties of the products are based upon what is believed to be the most reliable information available and are not intended as recommendations which infringe other patents. Although all Techny products are subject to rigid quality tests, no specific guarantee can be given, because results depend not only on quality but also on other factors beyond our control. We therefore welcome consultation in the event of doubt about application performance etc but do not accept any liability either directly or indirectly arising from the use of the products whether used as per its specifications or advice or otherwise. All transactions shall be subject to our terms of sale, delivery and payment. The leaflet supercedes the previous one and any new issue may take place without notice to supercede this edition as and when it becomes necessary.

TECHNICAL DATA SHEET
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CORPORATE OFFICE:

No.24, Patel Street, Ayyappa Nagar, Tiruchirapalli-620 021, Tamil Nadu, India
Phone : 0431 2458519 Fax No : 0431 2458590 Email : info@technychemy.co.in
Web : www.technychemy.co.in