



TECHNY CHEMY

TEC[®] BEAT EP Epoxy Based Corrosion Protection Coating for Steel and Concrete



KEY BENEFITS AND FEATURES

- Outstanding compatibility with Steel and concrete.
- Tough, durable and optimum build thickness ensures cost economy.
- Exhibits exceptional bond strength on old and new concrete surfaces.
- Bonds well with steel substrates on adequate surface preparation.
- The coated film is highly abrasion resistant.
- Ideally suited for areas in constant contact with sea water.
- Resistant to a wide range of chemicals commonly used in water treatment and water tank cleaning.
- Forms into a smooth laminate that is easily cleanable.
- Excellent resistance to wide range of chemicals.
- Resistant to oils, grease, salt water and chemical laden atmosphere.
- Aesthetically pleasing glossy finish available in two pleasant shades
- Easy to apply.

USAGE

- Versatile coating system suited for steel and concrete surfaces.
- Ideal coating system for chemical and salt laden atmospheric conditions.
- Useful coating system for marine and offshore structures.
- The optimum build thickness and toughness ensures adequate protection to steel and concrete in humid, coastal conditions.
- Ideal for use in highly corrosive industrial environments.
- Typical applications include use in structural steel, pipes, bridges and barges.
- Other applications include use in Water treatment plants, chemical plants, fertilizer units, process industry and cooling towers.

DIRECTIONS FOR USE

Surface Preparation : Proper surface preparation is the key to any successful Epoxy application. The surface to be coated should be free of dust, laitance, oils or other contaminants. Water jetting or brisk scrubbing should be adapted to remove surface contaminants. For old Surfaces with heavy oil contamination, detergent washing with mechanical scrubbing should be followed by thorough water washing. For new concrete surfaces ample time should be allowed after completion of curing. The moisture content before application of the Coating should not exceed 5%. Tec[®] Beat EP can be applied directly to mild steel and concrete surfaces. Mild Steel Surfaces should be free of rust and scales while applying Tec[®] Beat EP. Ideally Grit Blasting would be advised. Priming coat is not always required. In specific cases of highly porous Concrete surfaces a priming coat of Tec[®] Nova Primer EP may be applied prior to application of Tec[®] Beat EP.

Mixing : Tec[®] Beat EP is a two component system. For consistent results mix the entire contents of Part-B - Hardener to Part-A - Base and mix gently for about 3 minutes preferably with a slow speed drill fitted with a stainless steel mixing paddle. The resulting homogenous mix must be of a uniform shade. Care should be taken to maintain a clean environment in the mixing area to ensure that the mix is free of any contamination. Ease out air bubbles in the mix before application. Do not thin.

Application : The mix should then be applied over the prepared surface quickly ensuring that the entire mix is used up well within the pot life. The application should be done with a brush and finished with a roller. Ensure that a neat film is formed without blow holes, air bubbles or fisheyes. The second coat of Tec[®] Beat EP should be applied when the first coat has reached tack free stage. Avoid application at temperatures above 35°C or below 15°C.



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



Post Application: The coated area should be allowed to set at room temperature for a minimum period of 7 days.

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

Precautions : In cases where application involves prolonged inhalation of solvent vapors, adequate ventilation should be ensured before commencing the application job. 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. Both components of Tec[®] Beat EP are flammable and adequate precautions should be taken at the site.

TECHNICAL DATA

Physical State	Part- A- Liquid Part-B- Liquid
Colour	Silver Grey and Sage Green
Finish	Glossy
Percentage of Solids	40%
Pot Life at 30°C	1 hour Minutes.
Touch Dry	4 Hours.
Over Coating	5-6 Hours
Initial Setting	15 Hours
Final Setting	7 Days
Chemical Resistance	Resistant to a wide range of Acids, Alkali's and solvents. Separate Chemical Resistance Chart is available on request.
Coverage	5-6 M ² /Kg of Mix/Coat (Coverage will vary depending on porosity of the substrate)
Storage	Store in cool, dry location
Shelf Life	Maximum of 1 year from date of manufacture in unopened package.

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
REVISED - February, 2010

CORPORATE OFFICE :

No.24, Patel Street, Ayyappa Nagar, Tiruchirappalli-620021. Tamil Nadu, India
Phone : 0431 2458519 Fax No : 0431 2458590 Email : info@technychemy.co.in
Web : www.technychemy.co.in