TREMCO
Construction Products Group

TREMcoat E.P.A

Epoxy Paste Adhesive

PRODUCT DESCRIPTION

TREMcoat EPA is a two-component, versatile epoxy paste structural adhesive and void filler. It is specially formulated to handle a wide range of job-site conditions and applications. It creates a dense solid that adheres tenaciously to the substrate it is installed on.

USAGE/PURPOSE

TREMcoat EPA is a versatile adhesive that has a range of applications, some of which are:

- ❑ Anchor Starter Bars
- ❑ Adhering Pre-Cast concrete elements
- ❑ Adhesive for TREMseal Bandage system
- ❑ Adhesive for natural building elements
  - ▪ Stone
  - ▪ Brick
  - ▪ Concrete
- ❑ Metal bonding
- ❑ Void filling/crack sealing in concrete decks
- ❑ Emergency repair of concrete structures/industrial floors

FEATURES & BENEFITS

- ❑ Colour coded Part A and B assists with proper mixing and minimizes error by applicators on-site by achieving a uniform grey appearance.
- ❑ Blends easily to ensure uniform consistency prior to application.
- ❑ 95Mpa Compressive strength exceed concrete, ensuring the weak spot in the structure is now a point of strength.
- ❑ 1 Day Cure minimizes project delays.
- ❑ Good chemical resistance for applicable use in adverse conditions.
- ❑ Potable Water Approved (AS 4020).
- ❑ 2 hour pot-life allows plenty of time for installation.

PACKAGING

Made to Order: 20L Kit

COLOURS

Part A: Light Grey
Part B: Dark Grey

SHELF LIFE

12 months when stored as recommended in original unopened packaging.

STORAGE

Store in original, undamaged packaging in a clean, dry, protected location.

LIMITATIONS

- ❑ Use with adequate ventilation.

SUBSTRATE PREPARATION FOR CONCRETE SURFACES

1. Concrete shall be water-cured and attain a 20 MPa minimum compressive strength. Moisture content in the concrete must be lower than 4.5% as measured using a moisture meter. Depending on concrete construction and job site location, additional concrete testing may be required. Please contact your local Tremco Representative.
2. Concrete shall be free of any laitance which can usually be achieved by grinding, shot-blasting (preferred method) or sandblasting the surface.
3. Concrete surface shall be properly cleaned so that the surface to receive the TREMcoat EPA adhesive is free of mould, paint, sealers, coatings, curing agents, loose particles and other contamination or foreign matter that may interfere with the adhesion.
4. Concrete surfaces shall have a concrete surface profile (CSP) of 3.

SUBSTRATE PREPARATION FOR METAL SURFACES

All surfaces shall be sand-blasted to meet the requirements in AS 1627.4, class 2.5 for “Near White Metal”.

JOBSITE MATERIALS

Recommended materials and their uses are as follows:

- ❑ TREMcoat MPE: A multi-purpose epoxy for use in forming cants, void filling, and for use as a priming coating (when necessary)
- ❑ Tremco Sand Aggregate:
  - ▪ Various sizes to provide filler for TREMcoat MPE
  - ▪ Various sizes to provide non-slip surface and desired aesthetic finish

TYPICAL PHYSICAL PROPERTIES		
PROPERTY	**TEST METHOD**	**TYPICAL VALUES**
Pot Life @ 24°C, 50% RH		2 Hours
% Solids (by Weight)	ASTM D1353	100%
Set Time @ 24°C, 50% RH		7 Hours
Full Cure @ 24°C, 50% RH		1 Days
Compressive Strength		>95 MPa
Tensile Strength		5 MPa
Flexural Strength		33 MPa 1 Day
Mixing Ratio		1:1

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DETAIL WORK

Note: Do not apply sealant or coatings to a frosty, damp or wet surface or when substrate temperature is below 4°C or the surface temperature is above 43°C. Cure times as stated below are based upon standard ambient conditions of 24°C, 50% RH. A decrease in ambient temperature and humidity will significantly lengthen the cure time.

1. Shrinkage cracks in the concrete surface that are 1.6mm wide or greater shall be routed out to a minimum 6mm x 12mm and filled with a sand/TREMcoat EPA Adhesive.

MIXING INSTRUCTIONS

1. Mix each component individually to minimise settling and ensure a homogeneous mixture.
2. Add the entire content of the Part B into the Part A and mix using a low speed (600 rpm) drill until a uniform colour and consistency has been achieved.
3. During mixing, scrape the sides and the bottom of the pail to ensure that the catalyst is sufficiently mixed.
4. Make sure not to lift the mixing paddle, as to avoid whipping air into the epoxy mixture, as this could cause bubbles/blisters during application.

USAGE

The following is a guide to estimate material usage:

TREMcoat EPA, as adhesive: 1m^2/MM thick

EPOXY APPLICATION

1. TREMcoat EPA should be applied by trowel.
2. TREMcoat EPA should be installed and pressed into the void, and then struck off and made flush.
3. If being used as an adhesive for TREMseal Bandage, apply the TREMcoat EPA in a ribbon approximately 5mm wider than the bandage each side and 1mm thick.
   a. Press TREMseal Bandage into the TREMcoat EPA immediately.
   b. Apply a second ribbon of TREMcoat EPA and tool adhesive to ensure full encapsulation of the bandage edge.

APPROXIMATE CURE TIMES IN HOURS AT 50% RH

Temperature at 50% RH	TREMcoat EPA
4.4°C to 12.8°C	18 to 72
12.8°C to 18.3°C	12 to 60
18.3°C to 29.4°C	8 to 48
29.4°C	4 to 24

Variations in temperature and humidity can affect the cure rate of the coating. The above chart should be used as a guide only to determine the approximate rate of cure. Other factors can also influence the cure rate such as substrate temperature and enclosed environments. For more information about proper application procedures please refer to Installation Instructions or contact your local Tremco Representative.

CLEAN UP

- ❑ Clean all adjacent areas to remove any stains or spills with Tremco Xylol.
- ❑ Clean tools or equipment with Tremco Xylol before material cures.
- ❑ Cured TREMcoat EPA can only be removed with mechanical abrasion.

WEATHER IMPACT ON COATING APPLICATION

This section discusses the impact of applying these coatings outside the ideal temperature application range of 18.3°C to 29.4°C at 50% RH.

1. At temperatures lower than the ideal range, the material will become viscous and it will cure at a slower rate. Refer to the chart at the end of this document for approximate cure rates at varying temperatures.
2. Deck temperatures may affect cure rates even when ambient temperatures are high.

HEALTH & SAFETY PRECAUTIONS

The Safety Data Sheet (SDS) must be read and understood prior to use.

TECHNICAL SERVICE

Tremco CPG Australia Pty Ltd has a team of Representatives who provide assistance in the selection and specification of products. For more detailed information or service and advice, call Customer Service on (02) 9638 2755 or fax (02) 9638 2955.

GUARANTEE/WARRANTY

Tremco CPG Australia Pty Ltd products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco CPG Australia written instructions and (b) in any application recommended by Tremco CPG Australia, but which is proved to be defective, will be replaced free of charge.

Any information provided by Tremco CPG Australia in this document in relation to Tremco CPG Australia's goods or their use is given in good faith and is believed by Tremco CPG Australia to be appropriate and reliable. However, the information is provided as a guide only, as the actual use and application will vary with application conditions which are beyond our control. Tremco CPG Australia makes no representation, guarantee or warranty relating to the accuracy or reliability of the information and assumes no obligation or liability in connection with the information. To the extent permitted by law, all warranties, expressed or implied are excluded.

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