

PRODUCT DESCRIPTION

TREMcoat FPW is a food premise and potable water approved epoxy coating suitable for protecting walls, kitchen floors, restaurants, potable water tank lining, hospitals, wash rooms, and parking facilities. TREMcoat FPW can also be provide a high degree of mechanical protection and a slip resistant coating.

USAGE/PURPOSE

TREMcoat FPW is ideal for pedestrian and vehicle traffic areas such as:

- Potable water retention tanks
- Commercial kitchens
- Food & beverage production facilities
- Warehouse facilities
- Hospitals

FEATURES & BENEFITS

- Gloss surface and self-leveling characteristics provide an aesthetically pleasing surface for commercial floors.
- Due to the TREMcoat FPW low absorption, the surface is easily cleaned and maintained.
- Slip resistant surface reduces the risk of injury/accidents.
- Hard wearing epoxy system provides protection and extends the life of the structure.
- Enhanced bacterial protection assist with keeping rooms clean.

PACKAGING

Stock: 8L Kit

Made to Order: 16L Kit

COLOURS

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.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TYPICAL VALUES
Pot Life @ 24°C, 50% RH		30 minutes
% Solids (by Weight)	ASTM D1353	100%
Recoat Time @ 24°C, 50% RH		12 hours
Open to Foot Traffic @ 24°C, 50% RH		12 hours
Open to Light Wheeled Traffic @ 24°C, 50% RH		24 hours
Full Cure @ 24°C, 50% RH		7 days
Mixing Ratio		3:1
Chemical Resistance		- Ammonia Solution - Vegetable Oils - Dairy/Lactic Acid - 30% Concentration Sodium Hydroxide - Sodium Chloride - 30% Sulphuric Acid

LIMITATIONS

- Do not apply to damp or contaminated surfaces.
- 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 shot-blasting (preferred method) or sandblasting the surface.
3. Concrete surface shall be properly cleaned so that the surface to receive the TREMcoat FPW 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.
5. Surfaces shall be made free of defects that may telegraph and show through the finished coating. Surfaces that are rough (fins, ridges, exposed aggregate, honeycombs, deep broom finish etc.) shall be leveled and made smooth by applying a void filling coat of either sand mixed TREMcoat MPE or the appropriate TREMcrete concrete repair product.
6. All drains shall be cleaned and operative. Drains shall be recessed lower than the deck surface. The surface shall be sloped to drain to provide positive drainage. Drains should be detailed as instructed below.

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

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 MPE mixture.
2. Control Joints/Expansion Joints shall be cleaned prior to the TREMcoat FPW coating. The TREMcoat FPW shall be turned down into the Control/Expansion Joint a minimum of 12 mm. After the epoxy has cured, the appropriate sealant/gland shall be installed.

MIXING INSTRUCTIONS

1. Mix each component individually to minimise settling and ensure a homogenous 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 FPW, Each Coat: 5m²/L
- Aggregate: 1kg for every 3.5m² of epoxy coating

COATING APPLICATION

1. TREMcoat FPW can be applied by brush, roller, squeegee or airless spray.
2. TREMcoat FPW shall be installed in 2 coats:
 - a. First coat: 200 micron WFT/ 200 micron DFT
 - b. Second coat: 200 micron WFT/ 200 micron DFT
3. Apply the second coat as soon as the first coat can handle, without damage, traffic or applicators and the epoxy is tack free.
4. The second coat of TREMcoat FPW must be applied within 48 hours of the first coat.

APPROXIMATE CURE TIMES IN HOURS AT 50% RH

Temperature at 50% RH	TREMcoat FPW
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 FPW can only be removed with mechanical abrasion.

TROUBLESHOOTING

This section describes common industry application issues when certain environmental conditions exist and their remedies. If any of these should occur, it is always recommended that you contact your local Tremco Representative.

1. When a deck contains too much moisture, the moisture may change into a vapour, which then condenses at the concrete membrane interface before the coating has cured and may cause blisters or bubbles, ultimately interfering with proper adhesion. If this should occur, the blisters can be cut out, allowing moisture to escape. After moisture has escaped and the surface is dry, the area can be repaired.

2. If the coating application has been installed at a thickness that is greater than our installation instructions, pinholes, blisters or bubbles may develop in the coating. To avoid this occurrence, the material should be applied in accordance to the installation instructions.
3. If the coating is applied in very hot ambient temperatures, the air in the small spaces between the concrete particles increases in volume and forms blisters. A primer coating of TREMcoat MPE is highly recommended. Contact your Tremco Representative should this occur.
4. If the first coat is exposed to moisture (condensation, spillage) it must be lightly sanded to provide a mechanical bonding surface for the second coat. Failure to mechanically abrade may result in interlaminary adhesion issues.

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

Any information provided by TREMCO in this document in relation to TREMCO's goods or their use is given in good faith and is believed by TREMCO 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 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.