

Epo Shield TF100

General purpose solvent free epoxy binder system

DESCRIPTION

Epo Shield TF100 is a two component high build, solvent free epoxy binder system designed for use with specific aggregates to achieve a heavy duty, impact resistant and abrasive resistant flooring system. Epo Shield TF100 can also be used as a patching mortar or coving mixture.

With the addition of Epo Fillers as a self leveling 2-5mm flooring system, or as part of the Epo Shield 108 coloured flooring system.

PRODUCT FEATURES & BENEFITS

- Non-flammable
- 100% solids epoxy
- Good mechanical and abrasive resistance
- Excellent high build industrial wear coating
- Excellent adhesion qualities
- Negligible odour

TYPICAL APPLICATIONS

As a high performance new or maintenance, high build flooring system in

- Bakeries, condiment and food preparation facilities
- Wineries and breweries
- Abattoirs, fish processing and canned food manufacturing
- Hospitality, catering, commercial kitchens, back of bar areas
- Butcher shops, fast food and general food preparation areas
- Industrial floor repair
- As a patching mortar or coving epoxy

VOC RATING

TESTED UNDER THE REQUIREMENTS OF:

IEQ 13 VOLATILE ORGANIC COMPOUNDS "GREEN STAR TECHNICAL MANUAL 2008"

TVOC's calculated as the sum total of the VOC's of each individual raw material component. The total VOC is 86.50 grams/ litre of ready to use product.

APPLICATION RATES:

Primer	6-8sqm/litre
SL Flooring	When added 1:1 with Epo Fillers the mixed product will cover approx 1sqm/ litre @ 1mm in depth.
Coving mixture	1 litre of mixed epoxy will require approx 4.5 litres of selected aggregates.

PACK SIZES

Epo Shield TF100 is available in 28.50ltr & 9.50ltr kit sizes.

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PERFORMANCE PROPERTIES

APPEARANCE	FREE FLOWING LIQUID
COLOUR	CLEAR
FINISH	GLOSS
VOLME SOLIDS	100%
WEIGHT SOLIDS	100%
SPECIFIC GRAVITY	APPROX 1.03 @ 25°C
RE-COAT TIME	OVERNIGHT AT 25°C, 50%RH
POT LIFE	APPROX 35 MIUTES @ 25°C
VISCOSITY	APPROX 1000CPS
FULL CURE	7 DAYS @ 25°C/50%RH
MIXING RATIO	2:1 BY VOLUME

PREPARATION

- All surfaces to be coated must be structurally sound with a minimum comprehensive strength of 25MPA.
- The concrete substrate shall be free of all contaminants including dirt, grease, oil, all previous coatings, adhesives, efflorescence or laitance, ensure all loose material is removed and repaired.
- Prepare the concrete surface by shot blasting or mechanical grinding to ensure the surface is adequately keyed prior to application of Epo Shield TF100.
- All newly placed concrete must be allowed to cure for a minimum of 28 days.
- All large holes, non-structural cracks and large surface deformities should be repaired prior to the application of Epo Shield TF100 or Epo Shield Rapid.
- Ensure re-coat times are adhered to between applications, A minimum of 12 hours is required between coats at temperatures above 25°C.

PRIMING

Prime the surface with either Epo Shield TF100 or Epo Shield 100 Rapid.

MIXING (to lay a 2-5mm non-slip flooring system)

1. Mixing should be by means of mechanical forced action mixer with a high speed shear stirrer.
2. First pre-mix each individual component to form a homogeneous paste.
3. Join the two components together by adding 2 Part A to 1 Part B by volume, mixing thoroughly for 3-5 minutes until a homogeneous paste is obtained.
4. Once the epoxy is mixed add CONPELL Epo Fillers at the ratio of 1 Part mixed epoxy to 1 Part Epo Fillers and mix thoroughly for 3-5 minutes until a homogeneous paste is obtained.
5. Only mix as much product as can be used within the pot life of the product.

PLACING

1. Apply in a uniform manner using a notched trowel or gauging rake to ensure the desired finish is achieved.
2. Apply to a minimum of 1-3mm in depth.
3. Once the mixture has sufficiently leveled out on the primed substrate broadcast the appropriate aggregate to saturation into the surface to meet the required slip rating.
4. Once sufficiently cured, removed all excess aggregate using a broom or industrial vacuum then apply two coats of Epo Shield 108 colour at a rate of 4 -5m²/ litre per coat to achieve the desired finish.

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PLACING (continued)

4. Allow the surface to cure for a minimum of 24 hours before subjecting to pedestrian traffic, allow 72 hours before allowing vehicular traffic or chemical cleaning.
5. Full cure in 7 days.

CLEAN UP

Wash all equipment with Xylene immediately on completion of application and mixing

PRECAUTIONS

- Some individuals may experience a skin reaction to Epo Shield TF100. Use appropriate protection equipment. Refer to our Material Safety data Sheet for further information.
- Do not apply to steel or metal surfaces as corrosion may occur.
- In enclosed areas ventilation should be provided during the coatings curing cycle to allow for adequate curing of the coating. Epo Shield TF100 top coat will yellow and/or chalk when exposed to UV light.
- Discard all material that has exceeded the products recommended pot life or working times.
- Epo Shield TF100 is not a water proofing membrane. Apply Epo Shield TF100 between 10-35°C. Do not apply above 75% humidity.
- Do not apply Epo Shield TF100 over any existing coating or concrete treatment such as curing compound or Release agent. All contaminants must be removed prior to the application of Epo Shield TF100

Contact the manufacture if one or more of the following conditions exist

- The substrate is subject to hydro static pressure or rising damp.
- The substrate is chalky or dusting.
- Ambient or substrate temperatures are below 10°C.
- The finished floor will be subject to chemical attack (including hot chicken Fats).

APPLICATION TO COLD SUBSTRATES OR DURING COLD CLIMATES

- Epo Shield TF100 and Epo Shield 100 cure rates are dramatically reduced when applying to a substrate surface or ambient air temperature below 10°C.
- Applying Epo Shield TF100 to cold substrates or during cold climates can cause amine blush, resulting in an oily residue and or areas of uncured tacky discolouration.
- If the above occurs or any other surface contamination or discolouration appears on the coating, the Epo-Shield TF100 should be allowed to cure and then washed with fresh clean water, Methylated Spirits or Xylene depending on the severity of the amine blush.
- Ensure total removal of all contamination prior to the application of the top coats.
- Any failure to follow the above procedure will result in delamination between coats.
- Strictly follow all mixing instructions.
- Allow mixed product to sit for five minutes to assist in accelerating the drying reaction.
- Always provide adequate ventilation during the curing cycle.

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STORAGE

- Keep Epo Shield TF100 stored in a dry area, away from direct sunlight & frost.
- Store between 10°C & 30°C.
- Epo Shield TF100 has a shelf life of 12 months in an unopened container.
- Ensure partly used drums are correctly sealed.

FIRE

Product is non-flammable and poses no fire risk.

SAFETY PRECAUTIONS

- Wear appropriate protective equipment including clothing, gloves, appropriate respiratory mask and goggles.
- If poisoning occurs, contact doctor or Poisons Information Centre.
- If contact with skin occurs, remove contaminated clothing and thoroughly wash skin.
- If swallowed do not induce vomiting, give a glass of water.
- If in eyes, hold eyes open and flood with water for at least 15 minutes then see doctor immediately.
- For further information refer to the relevant Material Safety data Sheet.

WARRANTIES

CONPELL offers warranties when their systems are applied by accredited applicators. Please contact manufacturer for further information

IMPORTANT INFORMATION

The information and recommendations relating to Epo Shield TF100 are given based on current knowledge and experience. due to variances in material substrates and site conditions no warranties implied by law or, fit to purpose of the product can be implied. We accept no responsibility for loss or injury due to the incorrect handling or improper use of the product, limiting the cost of our liability to the replacement product cost only. Always refer to current Product

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