

Epo Shield 110

Clear, solventless, low yellowing epoxy top coat flooring system

DESCRIPTION

Epo Shield 110 is a clear, two component high build solventless epoxy roll coat flooring system designed to be used as a high build clear top coat for the Epo Shield WB, Epo Flake and Grip rite flooring systems.

Epo Shield 110 is designed as an internal flooring system only, when exposed to direct sunlight Epo Shield 110 should be over coated with Poly Shield WB.

Epo Shield 110 is also ideal as a cove and patching resin when specific aggregates are added. Contact manufacturer for further information.

PRODUCT FEATURES & BENEFITS

- Non-flammable
- 100% solids epoxy
- Good mechanical and abrasive resistance
- With aggregates added, can produce an epoxy mortar or coving mix
- Excellent adhesion qualities
- Adheres to most substrates including concrete, masonry and compressed fibre board.
- Negligible odour
- High gloss finish

TYPICAL APPLICATIONS

As a general purpose primer, mortar or coving resin in.

- As a high performance clear top coat for the Epo Shield WB, Epo Flake and Grip Rite flooring systems
- As an abrasion and chemical resistant floor coating
- As a low odour, clear, hard wearing and chemically resistant floor coating
- for hygiene areas subjected to rigorous cleaning

VOC RATING

TVOC's calculated as the sum total of the VOC's of each individual raw material component. The total VOC is 92.44grams/ litre of ready to use product.

APPLICATION RATES:

Primer	6 - 8 sqm/litre
Decorative floor finish	8 - 10 sqm/litre

PACK SIZES

Epo Shield 110 is available in 10ltr kit sizes.

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PERFORMANCE PROPERTIES

APPEARANCE	CLEAR 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 45 MIUTES @ 25°C
VISCOSITY	APPROX 1000CPS
FULL CURE	7 DAYS @ 25°C/50%RH
MIXING RATIO	3:1 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 110.
- 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 110.
- Ensure re-coat times are adhered to between applications, A minimum of 12 hours is required between coats at temperatures above 25°C.

MIXING

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 3 Parts Epo Shield 110 Resin to 1 Part Epo Shield 110 Hardener by volume, mixing thoroughly for 3-5 minutes until a homogeneous paste is obtained.
4. When using CONPELL Epo Shield 110 as a mortar or coving mixture, add selected aggregates after mixing Part A and Part B together.
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 brush and roller or trowel as required.
2. Avoid pin holing.
3. Successive coats should be applied at right angles to the previous coat.
4. Epo Shield is a minimum 2 coat system.
5. When overcoating Epo Flake and Grip Rite remove all excess material using a broom or industrial strength vacuum. The flaked surface may also be sanded prior to the application of Epo Shield 110.
6. Allow the surface to cure for a minimum of 12 hours @ 25°C before applying the second coat.
7. Allow the surface to cure for 72 hours before subjecting to pedestrian traffic and 7 days before allowing vehicular traffic or chemical cleaning.

CLEAN UP

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

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PRECAUTIONS

- Some individuals may experience a skin reaction to Epo Shield 110. 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 110 top coat will yellow when exposed to direct sunlight.
- Discard all material that has exceeded the products recommended pot life or working times.
- Epo Shield 110 is not a water proofing membrane.
- Apply Epo Shield 110 between 10-35°C. Do not apply above 75% humidity.
- Do not apply Epo Shield 110 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 110.

Contact the manufacturer 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 110 cure rates are dramatically reduced when applying to a substrate surface or ambient air temperature below 10°C.
- Applying Epo Shield 110 to cold substrates or during cold climates can cause amine blush, resulting in an oily residue and/or areas of uncured tacky discoloration.
- If the above occurs or any other surface contamination or discoloration appears on the coating, the Epo-Shield 110 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.

STORAGE

- Keep Epo Shield 110 stored in a dry area, away from direct sunlight & frost.
- Store between 10°C & 30°C.
- Epo Shield 110 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.

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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 110 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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