

Epo Shield 108

High Build, solvent free epoxy coating system for floors and walls

DESCRIPTION

Epo Shield 108 is a two component high build, solvent free, roll coat epoxy system designed to be used on both floors and walls as an easy to clean, chemical and abrasive resistant coating.

The Epo Shield 108 hardener can be added to Epo Shield 100 Resin to produce a high build R12-R13 anti-slip floor finish or for wall application. Epo Shield 108 hardener can also be mixed 50/50 with either Epo Shield Rapid or TF100 hardeners prior to adding to the Epo Shield 100 Resin to create an R10-R11 anti-slip finish. The **Epo Shield 108** flooring system is available in a range of colour options, colour is achieved with colour packs added, 1 x 500mls per 6.17ltr of Resin. (2 x 400ml colour packs are required for light colours, contact manufacturer for further information).

PRODUCT FEATURES & BENEFITS

- Non-flammable
- 100% Solids epoxy provides up to 660 microns DFT (two coat application)
- Good chemical and abrasive resistance
- Excellent adhesion qualities
- Negligible odour, can be used in built up areas, **Meets "Green Star Build" Code**
- Extremely good wear resistance
- Can create accelerated cure times with the addition of Epo Shield Rapid hardener
- Provides a high gloss finish
- Can be applied to meet R10-R13 finish with the addition of selected aggregates

TYPICAL APPLICATIONS

- As a high performance new or maintenance floor or wall coating.
- As an abrasion and chemical resistant floor coating.
- As a top coat to high build, anti-slip flooring.
- As a low odour hard wearing and chemically resistant floor and wall coating for industrial. commercial hygiene areas subjected to rigorous cleaning.

VOC RATING

TESTED UNDER THE REQUIREMENTS OF:

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

TVOC's calculated as the sum total of the VOC's of each individual raw material component.

The total VOC is	White or Colour	79.61 grams/ litre of ready to use product.
	Clear	79.61 grams/ litre of ready to use product

APPLICATION RATES

Industrial wall finishes	Primer 6-8 sqm/litre	Top coats 6-8sqm/litre/coat
R10 - R11 finishes	First coat 5-6sqm/litre	Second coat 5-6 sqm/litre
High build R12/R13 Industrial floor finish	First coat 3-4 sqm/litre	Second coat 3-4 sqm/litre
For a higher build finish a third coat may be applied at 3-4 sqm/litre		

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PACKSIZE

Epo Shield 108 is available in 28.50 & 9.50ltr kit sizes.

PERFORMANCE PROPERTIES

APPEARANCE	FREE FLOWING LIQUID
COLOUR	CLEAR RESIN, PUTTY COLOURED HARDENER
FINISH	GLOSS
VOLUME SOLIDS	100%
WEIGHT SOLIDS	100%
SPECIFIC GRAVITY	APPROX 1.05 @ 25°C
RE-COAT TIME	OVERNIGHT AT 25°C, 50%RH
POT LIFE	APPROX 45 MINUTES @ 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 25 MPa
 - 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 the epoxy coating
 - All newly placed concrete must be allowed to cure for a minimum of 28 days
 - All holes, non-structural cracks and surface deformities should be repaired prior to the application of Epo Shield
 - Always apply a primer coat of Epo Shield WB before apply Epo Shield 108 to walls
- Ensure re-coat times are adhered to between applications, a minimum of 12 hours and a maximum of 36 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 premix each individual component to form a homogeneous paste, add the required colour pack to Part A and mix for 3-5 minutes.
3. Join the two components together by adding 2 parts Part A RESIN to 1 Part, Part B HARDENER, mixing thoroughly for 3-5 minutes until a homogeneous paste is obtained.
4. When adding RAPID or TF100 hardener to the 108 hardener, always mix the hardeners together first prior to adding the mixed hardener to the RESIN component.
5. Avoid trapping air during the mixing process as this may cause pin holing in the coating during application.
6. Only mix as much product as can be used within the pot life of the product.

Note: Ensure the mixture is mixed correctly, there should be no colour streaking, then scrape the sides of the mixing vessel to ensure there is no unmixed material. It is ideal to store the product at 20 - 25°C to help avoid problems such as amine bloom or blushing. It is not recommended to apply cold product in a warm environment

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PLACING

1. Apply in a uniform manner using a brush and roller, ensure application rates are adhered to and ensure all surface voids are filled.
2. Avoid pin holing
3. Successive coats should be applied at right angles to the previous coats
4. It is recommended during application that the coating depth be tested at random points with a wet film gauge/ comb
5. Successive coats should be applied at right angles to the previous coat
6. Where an anti-slip surface is required broadcast appropriate aggregate on to the first coat while it is still tacky, allow to cure for 12 hours.
7. Once cured remove excess broadcast material using a broom or industrial strength vacuum.
8. 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.
9. Full cure in 7 days.
10. Slip resistance is dependant on the size of the aggregate used
 - R10 - 80 mesh R11-60 mesh
 - R12 - 36 mesh R13 - 24 mesh

CLEAN UP

Wash all equipment with epoxy solvent immediately on completion of application and mixing.

PRECAUTIONS

- Some individuals may experience a skin reaction to Epo Shield 108. 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 108 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 108 is a coating, not a water proofing membrane.
- Do not apply Epo Shield 108 over any existing coating or concrete treatment such as curing compound or release agents. All contaminants must be removed prior to the application of Epo Shield 108.
- Apply Epo Shield 108 between 10°C - 35°C, or if humidity is above 75%.

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 COID CLIMATES

- Epo Shield 108 cure rates are dramatically reduced when applying to a substrate surface or ambient air temperature below 10°C. Applying Epo Shield 108 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 108 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 any further product
- Any failure to follow the above procedure will result in delamination between coats
- Strickly follow all mixing instructions
- Always provide adequate ventilation during the curing cycle

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STORAGE

- Keep Epo Shield 108 stored in a dry area, away from direct sunlight & frost.
- Store between 10°C & 30°C.
- Epo Shield 108 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 108 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 Technical Data Sheets.

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