

Epo Shield HP140

Commercial/industrial grade high performance anti-slip epoxy floor coating

DESCRIPTION

The Epo Shield HP140 is a high build, roller applied anti-slip epoxy flooring system using 100% solids epoxies, applied as a 3 part system for on site application.

Epo Shield HP140 consists of the application of Epo Shield 100, applied over 2 or 3 coats depending on the thickness of the finished floor required. The CONPELL 400 anti-slip aggregate is broadcast into the first coat while that coating is still wet, then either one or two top coats are applied.

Epo Shield HP140 is designed for use in industrial, commercial and retail situations where an easy to clean, long lasting, chemical and abrasive resistant R10 flooring system is required.

This system delivers a hard wearing, extremely hygienic, chemically resistant, coloured floor which is durable and easy to clean.

PRODUCT FEATURES & BENEFITS

- Non-flammable
- 100% solids epoxy
- Good chemical and abrasive resistance
- Produces a high build industrial wear coating
- Excellent adhesion qualities
- Negligible odour
- Provides gloss finish
- Coloured, available in a wide variety of colours

TYPICAL APPLICATIONS

- As a high performance new or maintenance coating.
- As a low odour, hard wearing, abrasion and chemical resistant floor coating.
- For use in warehousing, manufacturing, mechanical workshops, plant and rubbish rooms.
- Retail and general use flooring.
- Car park facilities.

VOC RATING

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

The total VOC is White, clear or colour 79.61 grams/ litre of ready to use product.

APPLICATION RATES

Primer	6 - 8m ² /litre/coat
Decorative floor finishes	6 - 8m ² /litre/coat
Industrial floor finishes	4 - 6m ² /litre/coat

PACK SIZES

Epo Shield 100 clear is available in 28.50ltr and 9.50ltr kit sizes

CONPELL 400 aggregate is available in 20kg bags and CONPELL CA60 is available in 2.50kg buckets or 20kg bags.

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PERFORMANCE PROPERTIES

APPEARANCE	WHITE OR COLOURED LIQUID
COLOUR	WHITE OR COLOURED
FINISH	GLOSS
VOLUME SOLIDS	100%
WEIGHT SOLIDS	100%
Cure Times	
FOOT TRAFFIC	24 HOURS @25°C/50%RH
VEHICULAR TRAFFIC	72 HOURS@25°C/50%RH
FULL CURE	7 DAYS @ 25°C/50%RH
MIXING RATIO	2:1 BY VOLUME

PREPARATION

- All surfaces to be coated must be structurally sound and free of all previous coatings, adhesives, efflorescence or laitance by abrasive blasting or mechanical grinding to ensure the surface is adequately keyed prior to the application of the epoxy coating..
- All surfaces to be coated must be free of all dirt, grease, oil or other surface contaminants.
- All holes, non-structural cracks and surface deformities should be repaired prior to the application of Epo Shield HP140 using epoxy and sand or CONPELL R70.
- Ensure re-coat times are adhered to between applications, a minimum of 12 hours is required between coats at temperatures above 25°C.

PRIMING

- Apply Epo Shield WB , product can be diluted up to 10%. Apply as per data sheet at 8-10m² per litre.
- If the concrete surface is extremely porous, apply 2 coats of Epo Shield WB.

TOP COAT

1. Mixing should be by means of mechanical forced action mixer with a high speed shear stirrer.
2. First premix Part A to form a homogeneous paste.
3. Mix all of Epo Shield 100 part A thoroughly with the colour pack as required.
4. Join the two components together by adding 2 Parts Epo Shield 100 colour part A RESIN to 1 Part Epo Shield 100 part B HARDENER, by volume, mixing thoroughly for a minimum of 3 minutes until a homogeneous paste is obtained.
5. Add CONPELL 400 to the mixed product, at a rate of 330 grams aggregate to 10ltrs of mixed epoxy, mixing thoroughly for 2 minutes.
6. Avoid trapping air during the mixing process as this may cause pin holing in the coating during application, 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.

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PLACING

1. Apply the mixture using a brush and roller (12mm nap is recommended).
2. Avoid pin holing.
3. 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.
4. 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 HP140. 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 evaporation of the coating.
- Epo Shield HP140 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 HP140 is a coating, not a water proofing membrane.
- Do not apply Epo Shield HP140 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 HP140.
- Apply Epo Shield HP140 between 10°C - 35°C. Do not apply above 75% humidity.

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).

STORAGE

- Keep Epo Shield HP140 stored in a dry area, away from direct sunlight & frost.
- Store between 10°C & 30°C.
- Epo Shield HP140 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.

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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 HP140 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.

CONPELL

Head Office: PO Box 4252

Ph: 1300 966 118

Brisbane Sales: 0450 040 848

Loganholme DC, Qld 4129

Fax: 1300 922 001

National Sales: 0433 400 220

Email: info@conpell.com Web: www.conpell.com