

Epo Shield HP140W

Industrial grade high performance, water based anti-slip epoxy floor coating

DESCRIPTION

The Epo Shield HP140W is a water based non-slip epoxy flooring system, applied as a 3 part system for on site application. Epo Shield HP140W consists of Epo Shield WB mixed with CONPELL 400 anti-slip aggregate and is designed for use in a number of industrial, commercial and retail situations where a long lasting anti-slip, R10 or R11, easy to clean, chemical and abrasive resistant flooring system is required.

This system delivers a hard wearing, extremely hygienic, chemically resistant, coloured floor which is durable and easy to clean. **IDEAL FOR BASEMENT CAR PARKING AREAS.**

PRODUCT FEATURES & BENEFITS

- Non-flammable
- 50% 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, plant and rubbish rooms.
- Retail and general use flooring.
- Car park facilities.

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	48.44 grams/ litre of ready to use product.
	Clear	48.44 grams/ litre of ready to use product.

APPLICATION RATE

A 20ltr kit will cover approximately 80 - 100m² as a 2 coat application.

PACK SIZES

Epo Shield WB is available in 40ltr, 30ltr, 20ltr and 10ltr containers, CONPELL 400 aggregate is available in 330 grams, 1kg, 5kg and 20kg buckets.

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PERFORMANCE PROPERTIES

APPEARANCE	WHITE OR COLOURED LIQUID
COLOUR	WHITE OR COLOURED
FINISH	SEMI GLOSS
VOLUME SOLIDS	40%
WEIGHT SOLIDS	50%
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, high pressure water blasting, mechanical scrubbing or other means.
- 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 HP140W.
- Ensure recoat 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 as coloured, product may be diluted up to 20% with clean water prior to application.
- If the concrete surface is extremely porous, apply 2 coats of Epo Shield WB as a primer.

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. Mix all of Epo Shield WB part A thoroughly with the colour pack as required.
4. Join the two components together by adding 1 Part, Epo Shield WB colour part A RESIN to 1 Part, Epo Shield WB 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.

CONPELL EPO SHIELD HP140W FLOORING SYSTEM SHOULD BE APPLIED AS A MINIMUM 2 COAT SYSTEM FOR GENERAL PURPOSE FLOORING AND AS A 3 COAT SYSTEM WHERE A HEAVY DUTY FLOORING SYSTEM IS REQUIRED.

CLEAN UP

Wash all equipment with soapy water immediately on completion of application and mixing.

PRECAUTIONS

- Some individuals may experience a skin reaction to Epo Shield HP140W. 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 HP140W 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 HP140W is a coating, not a water proofing membrane.
- Do not apply Epo Shield HP140W 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 HP140W.
- Apply Epo Shield HP140W 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).

APPLICATION TO COLD SUBSTRATES OR DURING COLD CLIMATES

- Epo Shield HP140W cure rates are dramatically reduced when applying to a substrate surface or ambient air temperature below 10°C.
- Applying Epo Shield HP140W 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 HP140W 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.
- Strictly follow all mixing instructions.
- Allow mixed product to sit for five minutes to assist in accelerating the drying reaction.
- Do not apply thin coats as rapid moisture loss will arrest or slow the drying reaction.
- Always provide adequate ventilation during the curing cycle.

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STORAGE

- Keep Epo Shield HP140W stored in a dry area, away from direct sunlight & frost.
- Store between 10°C & 30°C.
- Epo Shield HP140W 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 HP140W 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 4353
Loganholme DC, Qld 4129

Ph: 1300 966 118

Brisbane Sales: 0450 040 848

National Sales: 0433 400 220

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