

# CONPELL Flake Floor

## DESCRIPTION

CONPELL Flake Floor is an epoxy flooring system that incorporates small blended coloured flakes to create an attractive hard wearing and durable flooring system. For internal & external concrete surfaces, the CONPELL Flake Floor system is over coated with either CONPELL PA100 or Poly Shield WB.

## PRODUCT FEATURES & BENEFITS

- Excellent adhesion
- **ISO 14001 & ISO 9001 Certified** Environmentally friendly, Meets "Green Star" Requirements
- Non-yellowing
- Easy to maintain and re-apply
- Cost effective, decorative concrete floor finish

## TYPICAL APPLICATIONS

CONPELL Flake Floor can be used in a variety of commercial, industrial, retail and domestic applications including food preparation areas, restaurants & cafés, commercial kitchens, retail, hospitals, schools, office & reception areas, workshops, warehousing, ablution blocks, living or family rooms, garages, patios, driveways or anywhere a hard wearing decorative, internal or external floor is required.

## VOC RATING

TVOC's calculated as the sum total of the VOC's of each individual raw material component. The total VOC can be calculated on the appropriate Product Data Sheets of products used.

## PACK SIZES

CONPELL Flake is available in 5kg boxes.

## 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. (Acid washing is not an acceptable preparation method).
- New concrete must be cured for a minimum of 28 days.
- The concrete surface must be a minimum of 20 MPA.
- 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 CONPELL Flake Floor.
- Ensure re-coat times are adhered to between applications.

## PRIMER (Epo Shield WB)

## MIXING

1. Mixing should be by means of mechanical forced action mixer with a high speed shear stirrer.
2. Add colour pack to part B if required, then pre-mix each individual component to form a homogeneous paste.
3. Join the two components together by equal volume, mixing thoroughly for a minimum of 3 minutes until a homogeneous paste is obtained.
4. Once mixed add 20% water by volume and mix thoroughly for 2 -3 minutes until a consistent paste is achieved.
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.

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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. Apply at a rate of 8 - 10m<sup>2</sup>/litre.
3. Avoid pin holing.
4. Successive coats should be applied at right angles to the previous coats.
5. Allow the surface to cure for a minimum of 12 hours before applying base coat.

## BASE COAT (Epo Shield WB)

### MIXING

1. Mixing should be by means of mechanical forced action mixer with a high speed shear stirrer.
2. Add colour pack to part B if required, then premix each individual component to form a homogeneous paste.
3. Join the two components together by equal volume, mixing thoroughly for a minimum of 3 minutes until a homogeneous paste is obtained.
4. Avoid trapping air during the mixing process as this may cause pin holing in the coating during application.
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, ensure application rates are adhered to and ensure all surface voids are filled.
2. Apply at 6 - 8m<sup>2</sup>/litre.
3. Avoid pin holing.
4. While the surface is still wet and tacky, broadcast the appropriate amount of flake to achieve the desired result, allow to cure for 12 hours.
5. Once cured, remove excess broadcast material using a broom or industrial strength vacuum, sand back the flaked surface to achieve the desired finish prior to applying the top coat sealer.

## TOP COATS (CONPELL PA100 or Poly Shield WB ) Two top coats are required.

### MIXING

1. Mixing should be by means of a mechanical forced action mixer with a high shear stirrer. Mix product as specified in appropriate CONPELL Product Technical Data Sheet.
2. Mix thoroughly for a minimum of 3 - 5 minutes until a homogeneous blended paste is achieved.
3. Avoid trapping air during mixing.

## PLACING

1. Apply in a uniform manner using a brush or roller, ensure application rates are adhered to and ensure all surface voids are filled.
2. No dilution is required.
3. Apply product as directed within appropriate CONPELL Technical Data Sheet (5-8sqm/litre).
4. Avoid pin holing.
5. Successive coats should be applied at right angles to the previous coats.
6. Allow the surface to cure for a minimum of 24 hours before subjecting to pedestrian traffic, allow 7 days before allowing vehicular traffic or chemical cleaning.
7. Full cure in 7 days.

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## PRECAUTIONS

- Some individuals may experience a skin reaction to the materials used in the CONPELL Flake Floor system. 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.
- CONPELL Flake Floor is a coating, not a water proofing membrane.
- Do not apply the CONPELL Flake Floor system over any existing coating or concrete treatment such as curing compound or release agents.
- Apply CONPELL Flake Floor between 10°C - 35°C.

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).

## FIRE

The Epo Shield WB, Flake, Poly Shield WB and Epo Shield 110 are non-flammable.

Poly Shield SL40 is flammable.

## 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.

## IMPORTANT INFORMATION

The information and recommendations relating to CONPELL Flake Floor 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

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