

# Poly Shield WB

2 component, water based, high solids polyurethane floor coating

## DESCRIPTION

Poly Shield WB is a two component, water based, high build polyurethane floor coating ideal for both internal and external concrete surfaces. Poly Shield WB has been specifically designed as a clear top coat for Polished Concrete and as a UV stable top coat for the CONPELL Epo Flake, Grip Rite and Epo Shield flooring systems. Poly Shield WB is available in a range of AS2700 colours, refer to the colour card on the front page of the CONPELL website

Due to its unique design Poly Shield WB is a hard wearing, durable coating, exhibiting good resistance to marking and staining.

## PRODUCT FEATURES & BENEFITS

- Excellent adhesion
- Good resistance to marking and staining
- Exhibits good resistance to UV light
- MATT and SEMI - GLOSS Ex finish
- Exhibits good chemical resistance
- Can be used in areas subjected to high levels of pedestrian and vehicular traffic

## TYPICAL APPLICATIONS

Poly Shield WB can be used in a variety of applications as a durable, hard wearing UV resistant top coat for polished concrete, or as a clear top coat for the CONPELL Epo Flake, Grip Rite & Epo Shield epoxy flooring systems, or to seal plain or coloured internal and external concrete surfaces.

## VOC RATING

The total VOC is 96gms/litre of the ready to use product. Total VOC is calculated as the sum total of the VOC's of each individual raw material component.

## APPLICATION RATES

Total application rates are typically     Flooring    6 -12m<sup>2</sup> per litre per coat

Poly Shield WB is a minimum 2 coat system, the above application rates may vary depending on the substrate and the finish required.

## PERFORMANCE PROPERTIES

|                          |                           |
|--------------------------|---------------------------|
| COLOUR                   | White MILKY LIQUID        |
| FINISH                   | MATT OR SEMI-GLOSS        |
| MIX RATIO                | 4:1                       |
| VOLUME SOLIDS            | 48%                       |
| WEIGHT SOLIDS            | INFORMATION NOT AVAILABLE |
| SPECIFIC GRAVITY         | APPROX 1.0 @ 25°C         |
| VISCOSITY                | INFORMATION NOT AVAILABLE |
| POT LIFE (MIXED PRODUCT) | 1 HOUR                    |
| RE – COAT TIME           | 8 - 48 HOURS @ 25°C/50%RH |
| FULL CURE                | 7 DAYS @ 20°C/50%RH       |

## PACK SIZES

Poly Shield WB is available in 15ltr and 5ltr kit sizes. Diluent W is available in 3ltr and 1ltr containers

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## 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.
- 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 Poly Shield WB.
- Very porous concrete may require a third coat of Poly Shield WB.
- Ensure re-coat times are adhered to between applications, a minimum of 8 - 12 hours is required between coats at temperatures above 25°C. CONPELL recommend 12 - 24 hours between coats.

## MIXING

1. Mixing should be by means of a mechanical forced action mixer with a high shear stirrer.
2. First, pre-mix each individual component to form a homogeneous paste.
3. Second, add 1 part B to 4 parts A, mixing thoroughly for a minimum of 5 minutes until a homogeneous blended paste is achieved.
4. If diluting is required (recommended for a first coat over concrete surfaces) the mixed solution may be diluted up to 20% using CONPELL Diluent W.
5. Avoid trapping air during mixing.
6. Only mix enough product as can be used within the pot life of the product.

## 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. When applying directly over concrete the first coat of Poly Shield WB should be diluted up to 20% with CONPELL Diluent W.
3. Poly Shield WB is a minimum 2 coat system.
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 72 hours before subjecting to pedestrian traffic, allow 7 days depending on conditions before allowing vehicular traffic or chemical cleaning.
7. To achieve an anti-slip finish, broadcast CONPELL aggregate as recommended by manufacturer.
8. Full cure in 7 days.

### NON-SLIP FINISH

9. Apply the Poly Shield WB as above, broadcast the required anti-slip aggregate in an even manner onto the second coat while it is still wet then back roll in. During this process spiked shoes are recommended.
10. Allow the surface to dry for a minimum of 72 hours before subjecting to pedestrian traffic and 7 days before subjecting to vehicle traffic.
11. The non-slip information provided below is based on current knowledge and experience. Due to variances in substrate finishes an on site sample and slip test should always be carried out prior to commencement of the final floor finish.

### AGGREGATE SIZE

|              |   |                      |
|--------------|---|----------------------|
| No Aggregate | - | No aggregate - P1/P2 |
| CA100        | - | 100 mesh - P3        |
| CA60         | - | 60 mesh - P4         |

## CLEAN UP

Poly Shield WB can be cleaned off all equipment thoroughly with soap and water.

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## PRECAUTIONS

- Some individuals may experience a skin reaction to Poly Shield WB. Use appropriate protection equipment. Refer to our Material Safety Data Sheet for further information.
- Do not apply directly 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. Poly Shield WB is a coating, not a water proofing membrane.
- Do not apply Poly Shield WB over any existing concrete treatment such as curing compound or release agents. All contaminants must be removed prior to the application of Poly Shield WB.
- Apply Poly Shield WB between 10°C - 35°C.

## PRECAUTIONS (continued)

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 Poly Shield WB stored in a dry area, away from direct sunlight & frost.
- Store between 10°C & 30°C.
- Poly Shield WB has a shelf life of 12 months in an unopened container.
- Ensure partly used drums are correctly sealed.

## FIRE

Poly Shield WB is non-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 Poly Shield WB 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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