

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 for internal and external concrete surfaces. Poly Shield WB has been specifically designed as a clear top coat for polished concrete and all CONPELL epoxy flooring systems.

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
- High gloss finish, Low VOC water based emulsion
- Exhibits good resistance to UV light
- Exhibits good chemical resistance
- Can be used in areas subjected to high levels of foot and vehicle traffic

TYPICAL APPLICATIONS

Poly Shield WB can be used in a variety of applications, as a durable and hard wearing UV resistant top coat to CONPELL Epo Shield epoxies, Epo Flake and Envirogrip texture finishes or as a clear top coat for polished concrete surfaces.

APPLICATION RATES

Total application rates are typically 6-12m² per litre

These application rates may vary depending on the substrate and the finish required.

PERFORMANCE PROPERTIES

COLOUR	WHITE MILKY LIQUID
FINISH	GLOSS
MIX RATIO	4:1
VOLUME SOLIDS	48%
SPECIFIC GRAVITY	Approx 1.0 @ 25°C
POT LIFE (MIXED PRODUCT)	1 HOUR
RE - COAT TIME	12 - 36 HOURS @ 25°C 50%RH
FULL CURE	7 DAYS @ 20°C 50%RH

PACK SIZES Poly Shield WB is available in a 15ltr and 5ltr kit sizes.

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PREPARATION (Concrete)

- All surfaces to be coated must be structurally sound and free of all previous 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 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.

PREPARATION (Steel)

- Smooth off all rough patches around welds and remove any weld spatter.
- Remove all grease, oil and other contaminants in accordance with AS1627.1.
- Remove all rust, millscale, oxide deposits and old paint films in accordance with AS1627.7 Class 2 (by hand) or AS1627.2 Class 2 (by power tool).
- Remove any dust or dirt by brushing or vacuum cleaning.
- Apply CONPELL MP metal primer as per the company's Technical Data Sheet.

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 the mixed material may be diluted up to 20% with CONPELL Diluent W. (Contact manufacturer for further details).
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 and medium nap roller, ensure application rates are adhered to and ensure all surface voids are filled.
2. Poly Shield WB is a minimum 2 coat system, unless used as a top coat to CONPELL epoxy flooring systems.
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 72 hours before subjecting to pedestrian traffic, allow 7 days before allowing vehicular traffic or chemical cleaning.
6. Full cure in 7 days.

CLEAN UP

Wash all equipment with soapy water.

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.

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PRECAUTIONS (continued)

- 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. Poly Shield WB should not be continuously submerged in water as this may result in discolouration or delamination of the coating.
- Do not apply Poly Shield WB over any 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, **do not apply when 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).

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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