

# Poly Shield SL40

Solvent based 2 component gloss, polyurethane/acrylic floor and anti-graffiti coating

## DESCRIPTION

Poly Shield SL40 is a two component, solvent based, polyurethane/acrylic coating for internal and external concrete surfaces. Poly Shield SL40 can also be used as a clear top coat to the CONPELL Epo Flake & Grip Rite flooring systems.

Due to its unique design Poly Shield SL40 is a hard wearing, durable coating, exhibiting good resistance to marking and staining. **POLY SHIELD SL40 IS IDEAL AS A NON-SACRAFICIAL ANTI-GRAFFITI COATING.**

## PRODUCT FEATURES & BENEFITS

- Excellent adhesion
- Good resistance to marking and staining
- Ideal as a non-sacrificial anti-graffiti coating
- High gloss finish
- Exhibits good chemical resistance
- Cost effective concrete treatment

## TYPICAL APPLICATIONS

Poly Shield SL40 can be used in a variety of applications including polished concrete, retail flooring, as a top coat to the CONPELL Epo Flake, Grip Rite & Epo Shield epoxy flooring systems, or to seal external concrete surfaces, as a non-sacrificial anti-graffiti wall coating.

## APPLICATION RATES

Total application rates are typically	Flooring	8-10m <sup>2</sup> per litre per coat
	Walls	10-15m <sup>2</sup> per litre per coat

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

## PERFORMANCE PROPERTIES

<b>COLOUR</b>	<b>CLEAR/COLOURED LIQUID</b>
<b>FINISH</b>	<b>GLOSS</b>
<b>MIX RATIO</b>	<b>3:1</b>
<b>VOLUME SOLIDS</b>	<b>36%</b>
<b>WEIGHT SOLIDS</b>	<b>40%</b>
<b>SPECIFIC GRAVITY</b>	<b>APPROX 1.0 @ 25°C</b>
<b>VISCOSITY</b>	<b>50.55 SEC @ 25°C</b>
<b>POT LIFE (MIXED PRODUCT)</b>	<b>3 HOURS</b>
<b>RE – COAT TIME</b>	<b>4 HOURS @ 25°C/50%RH</b>
<b>FULL CURE</b>	<b>7 DAYS @ 20°C/50%RH</b>

## PACK SIZES

Poly Shield SL40 is available in 20ltr and 4ltr 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 SL40.
- Very porous concrete may require a third coat of Poly Shield SL40.
- Ensure re-coat times are adhered to between applications, a minimum of 6 hours is required between coats at temperatures above 25°C. CONPELL recommend 12 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 3 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 10% using CONPELL Poly Sol 300.
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 SL40 should be diluted up to 10% with CONPELL Poly Sol 300.
3. Poly Shield SL40 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.

## CLEAN UP

Poly Shield SL40 can be cleaned off all equipment thoroughly with solvent.

## PRECAUTIONS

- Some individuals may experience a skin reaction to Poly Shield SL40. 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 SL40 is a coating, not a water proofing membrane.
- Do not apply Poly Shield SL40 over any existing concrete treatment such as curing compound or release agents. All contaminants must be removed prior to the application of Poly Shield SL40.
- Apply Poly Shield SL40 between 10°C - 35°C.

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## 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 SL40 stored in a dry area, away from direct sunlight & frost.
- Store between 10°C & 30°C.
- Poly Shield SL40 has a shelf life of 12 months in an unopened container.
- Ensure partly used drums are correctly sealed.

## FIRE

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 Poly Shield SL40 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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