

POLYSCREED LOCKCOAT



POLYURETHANE LOCK COAT

DESCRIPTION

POLYSCREED LOCKCOAT is a polyurethane roller coat system designed for coating of concrete and existing polyurethane screeds and coverings. The system is based on a 3-part liquid polyurethane resin system incorporating antimicrobial silver ion protection to prevent bacterial growth. A roll on application of uniform colour designed for excellent resistance to abrasion, chemical attack, physical aggression and thermal shock.

ADVANTAGES

- Fast installation
- Excellent adhesion
- Anti-Microbial Silver Ion protection
- Easy maintenance
- Seamless flooring
- Heat resistant to 80°C
- High resistance to chemicals, abrasion, impact and thermal shock
- Non-slip Matt finish
- Environmentally friendly
- Solvent free

APPLICATION

- Chemical processing plants
- Wet or dry process areas
- Breweries
- Food processing plants
- Packaging plants
- HACCP environments
- Non odour and non-tainting to food articles
- Engineering & fabrication workshops
- Laboratories

TECHNICAL DETAILS

Compressive Strength	55 N/mm ²
Tensile Strength	6.5 N/mm ²
Flexural Strength	40 N/mm ²
Bond strength	>1.5MPa (concrete failure)
Colours	Please refer to chart
VOC	8g/Lt
Water Absorption	<0.2%
Elastic Mod.	1350 N/mm ²
Impact Resistance	Drop Test <3mm
Heavy traffic	24 hours
Light traffic	12-16 hours
Abrasion Resistance	Accelerated <0.03mm
Chemical Resistance	Acids and sugars
Kit yield	7L (3.5L half kit optional)
Pot life	6-8 minutes
Coverage at 0.33mm	20 m ² /kit
Coverage at 0.25mm	28 m ² /kit

PACKAGING

Part A (Resin)	2.9Kg
Part B (Hardener)	2.4Kg
Part C (Aggregate)	4.0Kg
Total Kit	9.3Kg

WATCH POINTS

Application conditions must be between 5-25°C with a maximum relative humidity of 75%. Allow primer to cure for 48 hours in cold weather.

COLOUR STABILITY

The colour of the system will fade when subject to direct sunlight and high intensity lighting. The rate of colour change is unpredictable.

STORAGE

Store in a cool, dry place on pallets off of the ground. Avoid direct sunlight and high humidity. Shelf life is 6 months in original unopened packaging.

DIRECTIONS

SUBSTRATE REQUIREMENTS

Concrete substrates are to be 20-25 MPa compressive strength, free of dust and friable materials. There must be no moisture vapour rising from the concrete and moisture content must be less than 5%.

SYSTEM PRODUCT REQUIREMENTS

1. Screed Coating – POLYSCREED LOCKCOAT

TOOL REQUIREMENTS

1. Schmidt hammer & Moisture meter
2. Steel trowels or rubber squeegee
3. Mechanical mortar mixer
4. Mohair rollers
5. Spike shoes

PREPARATION

Existing PU Screeds and concrete will require mechanical preparation. Remove all previous coatings and concrete laitance to an exposed aggregate appearance. Diamond grind concrete surfaces in order to obtain a sound, dry and dust free, surface. All dust and loose debris to be removed by sweeping followed by vacuuming. The prepared substrate must have a surface texture of 120 grit sand paper.

PRIMING

Polyscreed Lockcoat is self-priming and porous concrete will need 2 coats. The primer coat should be scratch coated into place with a steel trowel and back rolled with a roller. Ensure application conditions are between 5-25°C and at a maximum of 75% Relative Humidity.

MIXING

Set up the mixing station as close to the floor surface as possible. Mix the pigmented resin alone first. Then add the hardener while mixing and mix for 30 seconds until uniform. Then, while mixing add the filler portion slowly to the mix and mix for a further 1 minute until

uniformly wetted out. Transfer the mix to a second mixing vessel and remix for 30 seconds.

COATING

Pour out the mix onto the demarcated area in a long ribbon and pull the mix with the steel trowel or squeegee in a scraper coat fashion. Then As soon as the first mix is placed, begin back rolling to finish (Spike shoes). The following mix must be delivered to the floor and placed next to the previous mix. Allow the surface to settle and cure. Do not over roll the surface unless a non-slip texture is desired. For a heavy non-slip, broadcast fine silica to saturation. Allow to cure overnight, vacuum and coat again as above.

COVING

Coat the covings while coating the floor surface. Polyscreed Lockcoat may also be used for coating of walls.

MAINTENANCE

Regular cleaning will maintain the Polyscreed system in a serviceable condition. Maintenance is to be carried out using LIQUID ACTION which complies with SANS 1344 - Medium Duty Solvent Detergent (2112/P3325/10/ID). Refer to technical datasheet for further details.

ANTIMICROBIAL RESISTANCE

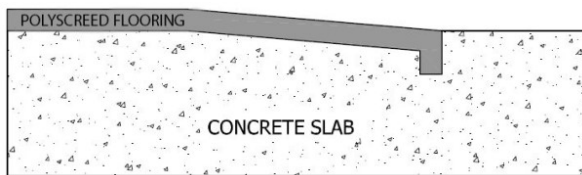
The Polyscreed range of products contain silver ion technology in which inhibits the growth of bacteria and fungi in contact with the product. The hygienic advantage is therefore not only derived from the daily use of the floor but in the longer life this technology affords in retarding the degradation of the floor by microorganisms.

SAFETY

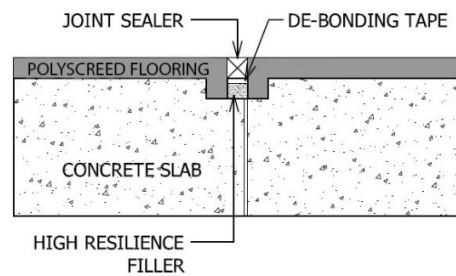
Please read Material Safety Data Sheet and specific health and safety data for this product provided in compliance with the requirements of OHS Act No. 95 of 1993. The finished system is not hazardous to health or the environment.

JOINT DETAIL

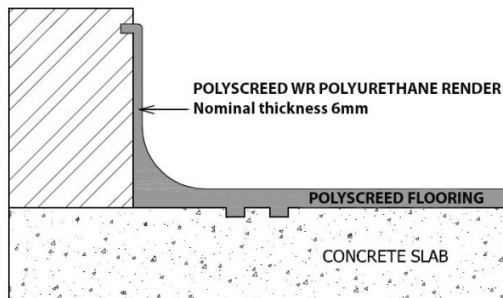
Termination Detail



Low Movement Joint Detail



Coving Detail



Channel Linings

