

SpecFloor PU SL Industrial Flooring Resin

A medium viscosity, self-levelling, solvent free, pigmented aromatic polyurethane floor screeding resin for interior industrial use where a hard, tough elastic, seamless floor is required

Intended Uses:

Use where a hard, tough elastic, seamless floor is required. Applied to suitably primed concrete surfaces, wooden floors, sand cement/screed, mastic asphalt etc.

The aromatic nature of this product means that it needs to be overcoated with an aliphatic UV Stable topcoat, such as SpecAqua 2K PU Topcoat (water based) or SpecFloor PU Flexi SilkMatt (solvent based)

Applied using V-Notch Trowels at thicknesses between 1.5 to 2.5 mm thick per layer.

Properties:

- Tough & flexible.
- Excellent appearance.
- Crack bridging capability.
- Excellent flow.
- Thermal & sound isolation characterises.
- Excellent adhesion.

Technical Data:

Mixing Ratio (By weight)	4:1 By weight (A:B) – 80:20
Comp. A	SpecFloor PU SL Industrial Flooring Resin Comp. A
Comp. B	SpecFloor PU SL Industrial Flooring Activator Comp. B
Density Comp. A (Kg/ Lt)	1.73
Density Comp. B (Kg/ Lt)	1.23
Mixed Density (Kg/ Lt)	1.459
Volume Solids Comp. A %	100
Volume Solids Comp. B %	100
Volume Solids Mixed %	100
Pot Life after Mixing @ 25°C	45-60 minutes
Curing	24 Hours
Elongation at Break	50%
Hardness Shore A/D	94/50
Application Temperature °C	10 – 40
Colour	Standard Range
Consumption @ 2.00 mm	3.2 Kg/ m ²
Thickness Required	1.5 to 2.0mm

Typical Interior System on Concrete:

Primer is applied in 1 to 2 layers to ensure no substrate porosity, 24 hours drying @ 25°C

Layer	Product	Consumption
Primer	2K PU SF Primer	6.66 m ² / Lt @ 150µm DFT
Body Coat	SpecFloor PU SL Industrial Flooring Resin	2.40 Kg/ m ² @ 1.5mm DFT
Topcoat	SpecAqua 2K PU Topcoat (2 layers must be applied)	3 m ² / Lt @ 120µm DFT (Two coats)

Floor Coatings

Whilst we endeavour to ensure that all advice we give about the product is correct, the information given in this data sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so entirely at his own risk. As conditions of use, method of application and suitability of the substrate prior to painting are beyond our control, no guarantee is implied by the recommendations contained herein. We therefore do not accept any liability whatsoever or howsoever arising from the performance of this product or for any loss or damage arising out of the use of this product. The information contained in this sheet is liable to modification from time to time in the light of experience and ongoing product development programmes. It is the user's responsibility to ensure that this sheet is current prior to using the product

Application:

Component A & B are packed in separate containers in pre-measured weight proportions. Component B should be added to Component A while mixing with low revelation mixer of 300 – 600 RPM for 5 minutes. The sides and bottom of the mixture should be incorporated to ensure a homogeneous mix. Once mixed the material should be used within 45-60 minutes of mixing @ 25°C.

Pour the mixture onto the primed floor and spread using V notch trowel, de-aeration can be further improved by using a spiked roller after 15 minutes. The flooring casting can be left smooth broadcast with flakes after de-aeration.

After allowing to cure for 24 hours the application of finishing coat SpecAqua 2K PU Topcoat can be applied in 2 layers.

Surface Preparation:

Substrate pre-treatment always include the following necessary steps prior to application of a flooring compound:

- New (concrete) substrates must be at least 4 – 6 weeks old.
- Mechanical strength subfloor should be: Compression Strength $\geq$ 25 MPa; Tensile Strength $>$ 1.5 MPa. Resp. ASTM C39 & C1583.
- The moisture content (CM-method) of the concrete / cementitious subfloor must be $<$ 3 – 4 %, $<$ 0.2% Anhydrite, $<$ 2 – 4 % Magnesite before a floor coating can be applied.
- Cleaning the subfloor, cementitious residues & other by-products (Calcium Carbonate $\square$ Anhydrite) by (diamond) sanding, shot blasting etc.
- Old resin flooring compounds that adhere well to the substrate need to be cleaned & sanded thoroughly. If there are doubts about their adhesion onto the substrate, adhesion tests should be carried out.
- Chemical residues, grease/oil etc. need to be removed (chemical cleaning, steam, detergents, flame-blasting).
- The substrate needs to be free from any loose /crumbly components. Gaps, cracks, holes etc. must be repaired prior to laying the first coat.
- All dust needs to be removed.
- If there are doubts about adhesion onto a substrate, an adhesion test must be carried out prior to the application.
- Porous and absorbent substrates require the use of a pore primer, to improve surface strength and to reduce capillary action of substrate pores. They also form a moisture barrier and improve Intercoat adhesion. Two-component epoxy-based primers & scratch coats etc. are commonly used for this purpose. Their suitability in terms of adhesion and overcoat-ability time however must be tested beforehand.
- Subfloor temperature should be at least 3 degrees above the dew point and not below 10°C.

Storage:

12 months in original un-opened containers in dry places at 25°C. no direct sunlight and temperatures above 30°C or below 5°C

Caution:

The application must take place in well ventilated places using protective gloves. Skin or eye contact must be avoided, otherwise wash carefully with soap & water. Refer to material safety data sheet for more information.

Packaging:

Comp. A	SpecFloor PU SL Industrial Flooring Resin Comp. A	20 Kg
Comp. B	SpecFloor PU SL Industrial Flooring Comp. B	5 Kg