

## SpecFloor PU SL Sports Flooring 115

A medium viscosity, self-levelling, elasticized, ultra-high solids, aliphatic polyurethane for interior and exterior surfaces.

### Intended Uses:

Applied to suitably primed asphalt and concrete surfaces. SpecFloor PU SL Sports Flooring 115 is used for outdoor or indoor highly resilient sport flooring systems for multi-purpose areas including tennis, basketball, volleyball, handball, football, kids' playgrounds etc. The elastic system absorbs shock and reduces impact.

Applied using V-Notch Trowels at thicknesses between 1.5 to 2.0 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)     | 3:1 By weight (A:B) – 75:25                       |
| Comp. A                      | SpecFloor PU SL Sports Flooring 115 Beige Comp. A |
| Comp. B                      | PU Activator 90 AL XL Comp. B                     |
| Density Comp. A (Kg/ Lt)     | 1.64                                              |
| Density Comp. B (Kg/ Lt)     | 1.13                                              |
| Mixed Density (Kg/ Lt)       | 1.48                                              |
| Volume Solids Comp. A %      | 100                                               |
| Volume Solids Comp. B %      | 90                                                |
| Volume Solids Mixed %        | 97                                                |
| Pot Life after Mixing @ 25°C | 25 – 30                                           |
| Curing                       | 24 Hours                                          |
| Hardness Shore D             | 35 – 40                                           |
| Application Temperature °C   | 10 – 40                                           |
| Colour                       | Beige or other on request                         |
| Consumption @ 1.5 mm         | 2.22 Kg/ m <sup>2</sup>                           |
| Thickness Required           | 1.5 to 2.0mm                                      |

### Typical Exterior 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    | Epoxy WB Primer Clear                                  | 7 m <sup>2</sup> / Lt @ 50µm DFT                |
| Body Coat | SpecFloor PU SL Sports Flooring 115 Beige Comp. A      | 2.22 Kg/ m <sup>2</sup> @ 1.5mm DFT             |
| Topcoat   | SpecFloor PU Flexi SilkMatt (2 layers must be applied) | 4.3 m <sup>2</sup> / Lt @ 150µm DFT (Two coats) |

## 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 2 minutes. The sides and bottom of the mixture should be incorporated to ensure a homogeneous mix. Once mixed the material should be used within 20 – 30 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 within the pot-life of the coating.

After allowing to cure for 24 hours the application of finishing coat SpecFloor PU Flexi SilkMatt 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 Sports Flooring 115 Beige Comp. A | 15 Kg |
| Comp. B | PU Activator 90 AL XL Comp. B                     | 5 Kg  |