

**Characteristics:** Plastipur® SL45 is a water based polyurethane self-levelling resin floor screed designed to provide excellent heavy duty usage with resistance to thermal shock, abrasion and chemical attack in aggressive industrial environments. Installed at 4 - 5mm, the surface is smooth, seamless and dries to a matt finish, providing slip resistant properties.

**Advantages:**

- High chemical resistance
- Resistance to hot water & steam
- Self-sealing
- Excellent slip resistant finish
- Matt finish
- Extremely hard wearing

**Recommended Uses:**

- Food manufacture and processing
- Brewing and beverage
- Automotive and Aviation
- Commercial Kitchens and Dairies
- Pharmaceutical and chemical plant processing
- Abattoirs
- Medical and Healthcare

## Product Information

System Thickness	4mm-5mm
Solids Content	100% Solids by weight
Pack Sizes	19kg
Shelf Life	36 mo. Base, 1 mo. Hardener, 6 mo. Aggregate
Storage	Keep out of direct sunlight. Store in a dry place, not below 15°C. Aggregates must be stored in a dry area to prevent contamination from moisture, as this will have a detrimental effect on the product.
Coverage Rate	19kg covers 1.9m <sup>2</sup> at 5mm
Pot Life	15minutes
Recoating Intervals	N/A
Light Traffic	12-16 hours
Full Traffic	48 hours
Full Chemical Cure	5-7 days

## Technical Information

The following figures are obtained from laboratory tests and our experience with this product

Slip Resistance potential Method BS7976 pt1-3 2002	Dry > 50, low slip
Abrasion Resistance Method BS 8204/ASTM D4060	Average depth of wear (mm) 0.04
Temperature Resistance	Tolerant of sustained temperatures of up to 90oC @ 5 mm
Chemical Resistance	Excellent chemical Resistance
Compressive Strength	46 N/mm2
Flexural Strength	8.8 N/mm2
Tensile Strength	3.2 N/mm2
VOC	13 g/l calculated on weight per full mixed unit
Life Expectancy	Up to 7 years. Subject to industrial traffic

## Preparation

**New Concrete Floors:** New concrete must be clean, sound, dry, fully cured and surface laitance removed by vacuum enclosed shot blasting or mechanical grinding, a minimum strength of 25N/mm2 is required.

**Existing Concrete Floors:** Remove all dirt, oil, grease, old paint or any other surface contaminants by vacuum enclosed shot blasting, scarifying or mechanical grinding. Fat, oil and/or grease must be removed by mechanical means and detergent washing ensuring all residue of the detergent is washed and removed by rinsing with clean water.

**Existing Floors ( previously coated )** All previous coatings and loose floor paints must be removed by mechanical preparation as described in the above section and primed as specified. If the old resin flooring cannot be removed, then please consult with our technical team for advice on intercoat adhesion and suitability, as it may not be compatible with existing floor surface.

To ensure the maximum bond is achieved, grooves must be cut into the perimeter of the subfloor, typically 5mm deep by 10mm wide. These should be inset approximately 150mm from, and running parallel with the walls and adjacent to any doorways, plinths etc. including any finished edge, i.e. both sides of a day work joint. The groove must have a neat square edge and the Plastifloor® SL45 laid to the full depth forming a perimeter anchorage

Waterbased polyurethane Self levelling ,4mm-5mm

## Application

Plastifloor® SL45 may be applied to substrates with a surface temperature in the range of 5-20°C and a relative humidity < 90% RH , with a minimum air temperature of

8°C and no condensation. Do not pre-warm this product as working times will be substantially reduced if materials are warm.

When the primed surface is tack free Plastifloor® SL45 should be applied at the required rate as soon after mixing as possible. (Delay can result in variation in surface finish, colour and add to application problems).

NB: Cure times are extended at low temperatures.

Mix the coloured base component to an even consistency, ensuring the redispersion of any settled pigment, Thoroughly scrape the contents of the base and hardener components into the same container and mix thoroughly for one minute. Pour the combined base and hardener into a rotary drum mixer and add the aggregate component steadily, until a homogeneous mix of the three components is achieved.

When thoroughly mixed the compound should be poured evenly over the appropriate area to be covered (monitoring rate of coverage to ensure correct depth of screed). Low floor temperatures and reduced thickness may reduce the flow properties of these products. Work out the mix rapidly and evenly over the area with a notched trowel, pin rake or similar to the appropriate thickness. Roll immediately with a spiked roller to achieve an even smooth surface and remove entrapped air. NB: Spiked rolling should be undertaken immediately after trowelling. Do not re-roll later.

Plastifloor® units should be applied consistently with mixes from the same batch used consecutively where adjacent areas are

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Plasti Chemie Vertriebsgesellschaft mbH Falgardring 1, 08223 Falkenstein Deutschland	
BSEN 13813 SR B 3.3 - AR 0.5 - IR>4 Resin coating/screed for use inside buildings as per PCI data sheet Wear resistance: AR 0.5 Bond strength: B 3.3 Impact resistance: IR > 4	

data concerning our products and devices as well as concerning our data and procedures are based on an extensive research work and an application technology experience. We obtain these results, with which we do not take over adhesion going beyond the respective single contract, in word and writing after best knowledge, reserve ourselves we however technical changes in the course of the product development. Beyond that our application technology service stands when desired for large consultation as well as for co-operation with the solution manufacturing and application technology problems for order. That does not relieve the user however to examine our data and recommendations before their use responsible for the own use. That applies - particularly for deliveries to foreign markets - also regarding the keeping of patent rights third as well as for applications and

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procedures, which are not expressly in writing indicated by us. The case of loss our adhesion is limited to indemnifications of same extent, as they plan our general terms of delivery and sales with lack of quality.