



FASTOP MULTI SL45



07/2023 Issue 5 – REF: SL45C

PRODUCT DESCRIPTION

FasTop Multi SL45 is a polyurethane cement self-levelling resin floor screed designed to provide very heavy-duty usage with resistance to thermal shock, abrasion and chemical attack in aggressive industrial environments. The system utilises universal FasTop Multi bases, hardeners and colourants in combination with a specific aggregate to provide smooth seamless matt surface with good anti-slip properties. FasTop Multi SL45 is suitable for use in a variety of wet and dry environments as a dense, impervious flooring solution ideal for applications in food and beverage, chemical and pharmaceutical industries to provide a long-lasting floor. The product incorporates an antimicrobial agent to minimise microbial growth on the floor.

ADVANTAGES

- High chemical resistance
- Resistant to hot water
- Self-sealing
- Extremely hard wearing
- Good slip resistant finish
- Matt finish
- Campden BRI tested
- HACCP certified

RECOMMENDED USE

A wide range of industrial applications such as:

- Food manufacture and processing
- Brewing and beverage
- Pharmaceutical and chemical plant processing
- Heavy duty plant and traffic areas
- Dairies
- Commercial kitchens
- Abattoirs and meat processing

PRODUCT DATA

Volume Solids:	~100%
VOC:	14 g/l calculated per full mixed unit
Colours:	Black, Blue, Buff, Dark Grey, Mid Grey, Light Grey, Green, Marigold, Red
Finish:	Matt
Pack Size:	19.1 kg
Pack Weights:	2.32 kg base, 0.45 kg colour, 2.22 kg hardener, 14.11 kg aggregate (19.1 kg)
Mixing Ratio:	As above packing weights
Mixed Density:	~2.00g/cm ³
Shelf Life:	36 months (Base & Colour), 12 months (Hardener) 6 months (Aggregate)
Storage:	Keep out of direct sunlight. Store in a dry place, between 15°C – 30°C. Aggregates must be stored in a dry area to prevent contamination by moisture, as this will have a detrimental effect on the product.

Typical properties at 20°C

Cure Times

Recoating Intervals: N/A

Light Traffic: 12 - 16 hours

Full Traffic: 48 hours

Full Chemical Cure: 5 - 7 days

Pot Life: 15 minutes from mixing

Note: All product must be used within the pot life limit, if the product is left in the container after mixing and not used, it may release hazardous fumes due to exothermic reaction.

Typical Consumption:

2.00 kg/m² per mm.

Coverage rate is calculated based on a sealed and smooth surface and may vary based on the substrate roughness and other conditions.

System Thickness: 4 - 5 mm
(Recommended)

Recommended

Application Methods: Trowel, Rake, and Spike Roller

SURFACE PREPARATION

Concrete substrates must be sound with a minimum compressive strength of 25 N/mm², a minimum tensile strength of 1.5 N/mm² and a relative humidity at the surface of no more than 75%.

It is essential that all laitance, surface sealers and curing membranes and any surface contamination, such as oil, grease and dirt, existing coatings and loose material is removed by suitable mechanised equipment. Planing or scarifying to CSP 5-7 is recommended for this product, for detailed information, refer to ICRI Guideline No.310.2R-2013.

After surface preparation, all loose debris and dirt should be removed using vacuum equipment.

Weak concrete must be removed, and local repairs carried out.

Anchorage grooves should be cut around the perimeter of the sub-floor, and terminations, e.g: doorways, around drains and at joints, to a width and depth of twice the thickness of the floor, up to a maximum of 10mm.



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RECOMMENDED SYSTEMS

Priming is essential for this product to ensure a sealed substrate suitable for a self-levelling FasTop screed. Apply FasTop Multi Primer by medium nap roller, brush or squeegee. Work the primer well into the surface ensuring it is fully wetted out and then roll to complete an even coating without any ponding. Two coats may be required to eliminate any dry patches and to create an even sealed surface.

The primer should be worked into and around the anchor joints, avoid filling these with resin.

A scratch coat of the product itself can be applied as a primer at a maximum of 1.5kg/m² over the whole area except the anchor joints. For further information please refer to recommended individual product data sheets.

MIXING AND APPLICATION

Mixing:

Add the FasTop Multi Part A component (base) and the FasTop Multi Part D (color package) to a suitable mixing vessel and mix for 1 - 2 minutes using a low-speed electric mixer or forced action mixer until homogeneous. Add the FasTop Multi Part B (hardener) component and mix again for 1 - 2 minutes until homogeneous. Add Part C (aggregate) steadily into the mixing vessel and mix for a minimum of 3 minutes until a uniform mixture is obtained.

Application

FasTop Multi SL45 When thoroughly mixed 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. Do not re-roll later.

FasTop Multi SL45 may be applied to substrates with a surface temperature in the range of 5-20°C and a relative humidity of 40% - 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.

NB: Cure times are extended at low temperatures.

See Sherwin-Williams FasTop SL45 System Guides for recommended floor systems.

TECHNICAL INFORMATION

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

Category Guide:	FeRFA Type 7
Bond Strength: (BS EN 13892-8:2002)	>3 N/mm ² (Substrate failure)
Abrasion Resistance: (BS EN 13892-4:2002)	AR 0.5 (Less than 50 microns wear)
Reaction to Fire: (EN 13501-1:2018)	Bfl-s1
Compressive Strength: (BS EN 604:2003)	54 MPa
Flexural Strength: (BS EN 178+A1:2013)	14 N/mm ²
Tensile Strength: (BS EN 527-2:2012)	7 N/mm ²
Impact Resistance: (BS EN ISO 6272-1:2011)	>4 Nm
Slip Resistance: (BS 7976-2:2002+A1:2013)	Can achieve <36 (low slip potential in dry conditions)
Chemical Resistance:	Excellent chemical resistance – please contact Sherwin-Williams for more specific advice

WARRANTY

Any person or company using the product without first making further enquiries as to the suitability of the product for the intended purpose does so at their own risk, and Sherwin-Williams can accept no liability for the performance of the product, or for any loss or damage arising out of such use.

The information detailed in this datasheet is liable to modification from time to time in the light of experience and normal product development, and before using, customers are advised to check with Sherwin-Williams, quoting the reference number, to ensure that they possess the latest issue.

DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

HEALTH AND SAFETY

Consult Safety Datasheet for information on safe storage and handling of this product.

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BS EN 13813: SR-B3.4-AR0.5-IR>4
Resin coating/screed for use inside buildings as per datasheet
Wear resistance: AR0.5
Bond strength: B3.4
Impact resistance: IR>4