

Flortex® PU Screed (V Grade)

Product Description

Viscous grade polyurethane floor screed system at 6-9mm thickness

Flortex® PU Screed (V Grade) is the ultimate slip resistant screed that has been professionally developed to provide the ultimate hygienic barrier and resistance to relentless chemical attack, impact and abrasion, thermal shock and impermeability.

Flortex® PU Screed (V Grade) is a more viscose heavy-duty polyurethane floor screed formulated to provide a screed capable of being laid successfully on ramped areas and to form 'steeper' falls to drainage systems, due its higher viscosity than 'standard' *Flortex PU Screed* systems. With superb abrasion and chemical resistance, *Flortex® PU Screed (V Grade)* is also able to withstand hot water and even steam cleaning when applied at a thickness of 9mm and ideal for areas requiring a seamless, impervious 'bund', resistant to biocidal, microbiological and chemical attack.

Typical Uses

- Food production areas
- Pharmaceutical
- Engineering
- Breweries
- Shipping & Transportation
- Boiling plants
- Chemical plants
- Off-shore oil platforms
- Aerospace

Colour

Flortex® PU Screed (V Grade) is available in a range of 6 standard colours. However, RAL colours may be available. Please ask.

Packaging & Coverage

Flortex® PU Screed (V Grade) is supplied in 29.64 kg units.

The coverage of a 29.64kg unit of *Flortex PU Screed V Grade* is approximately 2sqm at 6mm nominal thickness, or 1.4sqm² at 9mm nominal thickness.

The above coverages slightly over allows the amount of materiel needed. If the substrate is very rough the coverage may reduce slightly.

2.3kgm² per mm

Direction For Use

Surface Preparation

The concrete substrate must be a minimum of 28 days old, with a residual maximum moisture content of 75% RH. The substrate should be solid and sound with a minimum compressive strength of 25 N/mm² and a minimum pull-off strength of 1.5 N/mm².

Ensure a damp proof membrane has been installed and is functioning properly. If in doubt, test an area first to ensure there is no rising damp. If damp is detected, please contact the Polycote Technical Helpline for further information.

For the maximum adhesion and performance of the screed, thorough preparation of the substrate is essential, and all surfaces must be clean, sound, dry and free of surface laitance. A list of recommended preparation methods, are as follows:

- **Powerfloated concrete** - use a Vacuum Assisted Shotblaster to remove weak laitance and provide a surface key for the coating. If this is not possible, chemically etch with Polycote Etch IT, then rinse thoroughly and allow to dry.
- **Loose paint or rust** - remove, using a Vacuum Assisted Shotblaster, Floor Grinder or equivalent method
- **Loose or friable concrete** - use a Vacuum Assisted Shotblaster. If this is not possible, chemically clean with Polycote Etch IT then rinse thoroughly and allow to dry
- **Metal** - use a shot-blaster to prepare the surface to SA2.5 (bright steel) and primed with ZP Primer. Deck plates of 4mm or less do not provide a sufficient substrate for Flortex PU Screed, please contact Polycote Technical Helpline for further information.
- **Weak Concrete/Holes** - weak concrete must be removed and holes should be filled, prior to the installation of the screed. Please contact Polycote Technical Helpline for further information.

Polyurethane screeds tighten as they cure, so a 'toe-hold' must be formed at all terminating edges, including perimeter walls, day joints, expansion joints, drains, manholes, inspection lids and door thresholds. This prevents the screed from pulling away from the edges and ensures full bond to the subfloor.

The toe-hold should be cut approximately 150mm from the edge and run continuously along it. Minimum size: 20mm wide x 8mm deep.

Direction For Use^(cont)

Priming

First and foremost, it is essential to establish the correct primer for your floor. This is dependent upon the hardness/porosity of the substrate, the application temperature, the speed of cure required (mostly governed by the amount of downtime allowable) and whether or not there is any damp or oil/contamination present. If in doubt, please consult with one of our technical team before purchasing any material.

Ensure all surfaces are primed as per the application instructions on the specific product data sheet. Make sure the toe-hold grooves are fully primed. It is very important that the primer does not fill the groove and that a minimum depth of 8mm is maintained. Whilst the primer is still wet, broadcast the aggregate (as provided) to provide a suitable 'key', thereby ensuring an excellent adherence of the screed to the substrate. Once cured (this is mostly the following day, ensure that any and all unbonded aggregate is removed prior to the application of the screed.

Mixing

Stir the individual components before mixing together. Add Part 'B' to Part 'A' and thoroughly mix in a rotary drum mixer for at least 1 minute before adding the aggregate. For smaller quantities, a heavy-duty slow speed drill with a mixing paddle may be used. Steadily add the aggregate whilst continuing to mix. Once all the aggregate has been added continue mixing thoroughly for 3 minutes.

Number of parts supplied: 3

Never mix by hand. Furthermore, it is strongly advised not to split individual unit quantities. It is essential that the correct (individual part) quantities are used together with thorough mixing. The use of incorrect quantities and/or a lack of thorough mixing WILL result in a poor or non-cure situation.

Application

A constant supply of mixed material must be maintained to ensure a consistent application and to keep a continuous 'wet edge'. The mixing station should be positioned as close to the application area as practicable. Pour the mixed material immediately onto the prepared and primed substrate and spread evenly with a trowel to the specified thickness, ensuring all toe-hold grooves are fully filled. Each new mix must be blended into the previously applied material, with a wet edge maintained at all times. Installation is recommended only by fully trained and competent tradesmen. A list of approved, nationwide Polycote contractors is available on request, offering reliable and professional installation services.

Application Guidelines

Application Temperature

The ambient temperature of the substrate as well as the working area should be a minimum of 15°C during the application and curing period. The surface of the substrate should be a minimum of 10°C. If the temperature of the room or substrate be allowed to drop during the application and/or curing process, this will adversely affect both the curing and final strengths/performance of the screed. Should the screed be exposed to damp during the curing process, this may also adversely affect both the colour and appearance of the system. Therefore, the substrate and uncured floor must be kept at least 3°C above the dew point to reduce the risk of condensation or blooming on the surface. The unmixed materials should be a minimum of 10°C prior to mixing/installation.

Pot Life

Flortex® PU Screed has a pot life of approximately 15 minutes.

Curing Times

The product will accept light pedestrian traffic in 12-16 hours, light wheeled traffic in 24 hours, heavy duty traffic in 48 hours and fully cured in 7 days.

Cleaning

Tools and equipment should be cleaned whilst resin is still wet with Solvent Cleaner. Hands and skin should be cleaned immediately with Organic Hand Cleaner.

Physical Properties

Compressive Strength:	45 N/mm ²
Flexural Strength:	10.6 N/mm ²
Tensile Strength:	3.9 MPa
Bond Strength:	> 2.0 N/mm ²
Wear Resistance:	AR0.5
Impact Resistance:	IR>4

Physical Properties^(cont)

Impact Resistance:	Dry > 50, Wet > 40
Slip Resistance (PTV) (BS EN 16165 : 2021):	TYPE 8
BS 8204-6 / FeRFA:	6mm : serviceable to +80°C
Temperature Resistance:	9mm : serviceable to +120°C
Chemical Resistance:	Excellent
VOC Content:	15g/l Based on a fully mixed unit

Shelf Life & Storage

Store in a cool, dry, frost-free environment at temperatures between 15°C and 25°C away from from sources of ignition.

Health & Safety

Before using this product, please ensure you have received and read carefully both the Hazard Label applied to the container and the relevant Material Safety Data Sheets.
As from 24th August 2023, adequate training is required before industrial or professional use of this product.

Any Questions

Please do not hesitate to contact us for advice regarding the use of this product or its suitability for your particular application.
Our aim is to provide all the technical help you need to make an informed choice and achieve total success.
Polycote Technical Helpline: **01234 846400**

All reasonable care has been taken in supplying the above information. However, any figures quoted do not constitute a specification but represent typical values obtained. It is the customer's responsibility to ensure the product is fit for the intended purpose and that conditions are suitable. Any technical advice is offered in good faith, but without warranty. This is also applicable when proprietary rights and third parties are involved. In the light of the Company's policy of continual research and development, it is the customer's responsibility to ensure that the information contained herein has not been superseded.

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24	
EN 13813 : SR-AR0.5-B2.0-IR>4.0 Synthetic resin screed material for internal use in buildings	
Bond strength	B2.0
Release of corrosive substances	SR
Water permeability	NPD
Wear resistance	AR0.5
Impact resistance	IR>4.0