

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' 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.

Available Colours

Flortex® PU Screed (V Grade) is available in a range of 6 standard colours. However, other BS and RAL are available. Please ask.

Packaging

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

As from 24th August 2023, adequate training is required before industrial or professional use of this product.

Typical Uses

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

Direction For Use

Conditioning of Concrete

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.

Functioning Damp Proof Membrane

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.

Preparation

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 Surfaces: 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.

Direction for Use (cont)

- **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.

Toe-Hold Grooves

Polyurethane screeds 'tighten' within their curing process and therefore it is essential to install a 'toe-hold' alongside all terminating edges, such as perimeter walls, day joints, expansion joints, drains, manhole covers & inspection lids, door thresholds, etc. This ensures the screed remains fully bonded to the subfloor and does not pull away from the edges. The 'toe-hold' should be a minimum size of 20mm wide x 8mm deep, cut approximately 150mm from the terminating edge and run the entire length of the edge.

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

Application

Firstly, it is important that a constant supply of mixed material is provided to the installer in order to maintain a 'wet-edge' and consistency of application. To help this, it is advisable to set up the mixing station as near to the application area as sensibly possible. Pour the mixed material immediately onto the prepared and primed substrate and spread evenly with a trowel to the specified thickness. Ensure the toe-hold grooves are fully filled with the screed. Each 'new' mix must be blended in with the previously laid mix and to facilitate this, it is imperative a wet-edge is maintained. We strongly recommend that this product is installed only by fully trained and skilled tradesmen. We offer a list of approved nationwide contractors that are competitive, reliable and professional, should you require this service. We strongly recommend that this product is installed only by fully trained and skilled tradesmen. We offer a list of approved nationwide contractors that are competitive, reliable and professional, should you require this service.

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.

Curing Temperatures & Times @ 20°C

Pot Life:	15 mins @ 15°C
Application temperature:	15°C
Depth of screed (1 layer):	6mm – 9mm
Initial cure:	4 – 6 hours
Pedestrian/Foot traffic	12 – 16 hours
Light traffic	24 hours / 1 day
Heavy traffic:	48 hours / 2 days
Full cure:	7 days

PLEASE NOTE: Should the temperature be allowed to drop during the curing process, the curing times can exponentially increase, to the point whereby a non-cure situation could occur.

Technical data after 28 Days at 20°C

Compressive Strength	> 50 N/mm ²
Bond Strength:	> 3 N/mm ²
Impact resistance:	IR 10
Wear resistance:	AR 0.5
Slip Resistance:	Dry > 50
(Pendulum Test to BS7976-2)	Wet > 40

Chemical Resistance:

Max. Operating Temperature:	6mm: +80°C 9mm: +120°C
VOC	12g/l

Polycote Flortex PU Screed (V Grade) has excellent chemical resistance. However, it is important to advise our technical department/consultant of all chemicals to which the screed may be exposed to, along with the length of time before the cleaning up of any such chemical.

Coverage

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

Storage

Flortex® PU Screed (V Grade) has a maximum of twelve months shelf life when stored in the original, unopened containers and in dry conditions between 10°C and 25°C. Do not store or expose to freezing conditions.

Cleaning

Clean all equipment immediately after use with Polycote Solvent Cleaner.

Further Notes

- 1) *Flortex® PU Screed (V Grade)* is supplied with an aggregate to provide a slip resistant profile to the finished surface. However, it is important to note that when the screed is first installed, the floor has a uniform-coloured surface and the aggregate (which is white in colour) will only begin to show with general use. over time.
- 2) As with all of our coatings and screeds, the products are manufactured in batches and despite a strict and careful manufacturing procedures, colour differences can occur between different batches. It is therefore important not to mix different batches within the same installation or area.
- 3) *Flortex® PU Screed (V Grade)* is applied by hand and the resultant texture and appearance of the screed may vary. It is not a self-levelling product and whilst the applicator will endeavour to produce a smooth finish, it is important to note that trowel marks may well be visible. These will of course become much less apparent over the wearing process and as the aggregate begins to be exposed.

Further Notes (cont)

Health & Safety

Technical Support

- 4) Take care when covering uncured material in an attempt to protect it from other trades. Use only breathable material. At no point should polythene be used as this may well attract condensation.
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Please ensure all persons involved in the storage, handling and application of this product have read and understood this Technical Data Sheet, the Safety Data Sheet, the product labels as clearly displayed on each bag/container, together with the Terms and Conditions of Sale.

Our goal is to provide you with all the assistance you need to make an informed choice of product, a professional installation and continuing onto long term success.

Whether it be before, during or after the application of the product, should you have any query or concern whatsoever as to the product or the installation, please do not hesitate to call our Technical Department on **01234 846400**.