

Flortex® PU Screed

Product Description

Extremely durable polyurethane floor screed system at 6-9mm thickness

Flortex® PU Screed is a water-based resin-rich polyurethane floor screed which is trowel applied for use on concrete and polymer modified cementitious screeds. It provides good anti-slip properties and a seamless, textured, matt finish and is non-tainting.

Flortex® PU Screed has been designed for use in areas where there is extremely heavy traffic, extreme temperatures (steam cleaning, boiling water, liquids up to 120°C at 9mm), and has excellent chemical resistance, such as concentrated citric acid, spirit vinegar, lactic acid and common alcohols found in the food, dairy and pharmaceutical industries.

Typical Uses

Areas of heavy usage and high chemical resistance, where a seamless and easily maintained surface is required. Usage areas include: chemical plant processing, food manufacture and processing, medical and veterinary practice, dairies and animal husbandry, breweries, heavy duty plant and traffic areas, engineering, etc.

Suitable substrates: *Flortex® PU Screed* may be applied to concrete, grout concrete and polymer reinforced screeds.

Colour

Flortex® PU Screed is available in 6 standard Polycote colours. The final finish is mottled due to the presence of aggregate at the surface. Bespoke RAL colours may be available on request.

Packaging & Coverage

Flortex® PU Screed is supplied in pre-measured quantities as a three part 30.3kg unit, comprising a coloured resin blend Part 'A', hardener Part 'B' and aggregate Part 'C'.

The coverage of a 30.3kg unit of *Flortex PU Screed* is approximately 2sqm at 6mm nominal thickness, or 1.35sqm at 9mm nominal thickness.

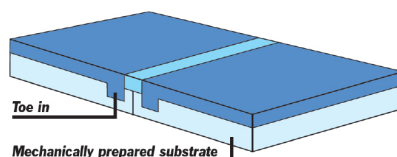
The above coverages slightly over allows the amount of material needed. If the substrate is very rough the coverage may reduce slightly.

Direction For Use

Surface Preparation

All substrates must be clean, sound, with a minimum compressive strength of 25 N/mm² and a minimum pull-off strength of 1.5 N/mm², dry and free of surface laitance. Recommended methods are:

- **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. Deckplates of 4mm or less do not provide a sufficient substrate for *Flortex PU Screed*, please contact Polycote Technical Helpline for further information.



To give a professional finish, we advise that grooves are cut into the floor around the perimeter of the substrate, to give the screed an anchorage. The groove should be about 20mm wide and 8mm deep and about 150mm from the edge.

Mixing

Once the surface has been thoroughly prepared, a suitable primer has been applied, and the surface is tack free, apply *Flortex PU Screed*.

Prior to mixing, the temperature of the three components must be between 15°C and 25°C. Stir the individual components before mixing together.

Add Part 'B' to Part 'A' and thoroughly mix for at least 1 minute. Steadily add the aggregate whilst continuing to mix. Mix thoroughly for 3 minutes once all the aggregate has been added.

Direction For Use^(cont)

Application Guidelines

Physical Properties

Shelf Life & Storage

Health & Safety

Any Questions

Mixing^(cont)

For best results use a heavy duty slow speed drill (300 - 400 rpm) with a mixing paddle. Mix until a lump free consistency is obtained.

Ensure thorough mixing as an unmixed product will result in a poor or non-cure situation.

Application

Once fully mixed, apply the product between the battens (if necessary) and level with a steel float. If a smooth finish is required (to assist cleaning), back-roll with a short pile roller. Ensure all chases and toe-in grooves are fully filled. Blend each mix into the previous application, avoiding disturbance of material that has commenced setting.

Application Temperature

Normal application temperature is between 15°C and 25°C. Air humidity must not exceed 90%. *Flortex PU Screed* should be room temperature when applied, if the product is warmer than usual, pot life and curing times will be reduced. Similarly, times will be extended in colder applications.

Newly installed floors must be protected from damp, condensation and water for a minimum of 24 hours at 20°C. Maintain ambient temperatures above 10°C for at least 24 hours following installation. The substrate and uncured floor must be kept at least 3°C above the dew point to prevent condensation or surface blooming.

Pot Life

Flortex® PU Screed has a pot life of approximately 15 minutes at 20°C, however this can be reduced to as much as 8 minutes at +25°C.

Curing Times

The product will accept light pedestrian traffic in 12 hours, light vehicular traffic in 24 hours, heavy duty traffic in 48 hours and fully chemical 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.

Compressive Strength (BS EN 13892-2 : 2002):	45.4 N/mm ²
Flexural Strength (BS EN 13892-2 : 2002):	10.6 N/mm ²
Tensile Strength (BS 6319-7 : 1985):	4.3 MPa
Bond Strength (BS EN 13892-8 : 2002):	> 2.0 N/mm ²
Wear Resistance (BS EN 13892-4 : 2002):	AR0.5
Impact Resistance (BS EN ISO 6272-1 : 2011):	IR>4
Slip Resistance (PTV) (BS EN 16165 : 2021):	DRY > 50, WET > 40
BS 8204-6 / FeRFA:	TYPE 8
Temp. Resistance:	6.0 mm < 80°C, 9.0 mm < 120°C
Chemical Resistance:	Excellent
VOC Content:	< 15 g/l

Store in a cool, dry, frost-free environment away from from sources of ignition.

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.

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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