

Flortex® Freeflow PU

Product Description

Self-smoothing high build polyurethane floor screed

Flortex® Freeflow PU is a medium duty flow applied flooring system with a seamless matt smooth finish. Based upon polyurethane technology it provides a surface with resistance to abrasion, chemical attack and other forms of physical aggression. Flortex Freeflow PU is typically applied at a thickness of 2-3mm.

Product Advantages

- Fast application
- Hygienic + easy to clean.
- Excellent adhesion to concrete.
- Hard wearing
- Excellent chemical resistance

Typical Areas of Usage

- Chemical processing
- Food production dry areas
- Pharmaceutical plants
- Warehouses

Packaging

Flortex Freeflow PU is supplied in 27.3kg units.

Other

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

Direction For Use

Surface Preparation

THOROUGH SUBSTRATE PREPARATION IS ESSENTIAL.

Surfaces to be coated must be clean, dry and free of loose contaminants. Lightly abrade the surface to provide a key. The concrete substrate must be sound with a minimum compressive strength of 25 N/mm², a minimum pull-off strength of 1.5 N/mm² and should be a minimum of 28 days old. Concrete substrates should be mechanically prepared using a vacuum assisted shotblasting or diamond grinder, to remove any weak surface laitance and/or previous surface treatments. Weak or damaged concrete should be removed and repaired using a relevant Polycote repair material. If unsure of the best option, please ask.

To ensure the finished system remains fully bonded to the sub-floor it is recommended that all terminating edges are rebated to produce a cross-section of 5mm deep by 5mm wide for 2-3mm or 8mm by 8mm for 4-6mm applications, running at 150mm from and parallel with the walls i.e. day joints, movement joints, floor edges, door thresholds etc.

Mixing

Pre-mixing of the Part A coloured liquid component is essential to ensure any pigment settlement is reincorporated. Empty both Part A coloured base and Part B brown hardener component into a rotary drum mixer and mix for a minimum of 1 minute then slowly add the aggregate component in stages, mix for a minimum of 2 minutes until a lump free consistency is obtained. Mixing by hand is not recommended & do not split packs. It is essential that the mixing station and the supply of materials are positioned such that a continuous supply of mixed material can be maintained to minimise breaks in the application process.

Application

Flortex Freeflow PU can be applied by trowel or pin rake to the required thickness. Within ten minutes roll the Flortex Freeflow PU with a spike roller in order to de-aerate the material. When the material is sufficiently cured existing joints in the sub floor must be carried through into the Flortex Freeflow PU screed. The ambient temperature of the works area should be a minimum of 15°C during the application and curing period, if not adhered to this can affect the performance of the system. Materials and substrate temperature must remain above 15°C all times.

Coverage

Flortex Freeflow PU approximately 7m² per unit at a thickness of 2mm. However, please note that these times will vary, depending on site conditions, surface profile, texture, porosity, and substrate temperature.

Shelf Life & Storage

Limitations

Curing Schedule at 20°C

Cleaning

Health & Safety

Any Questions

Store in dry conditions at temperatures between 10°C and 25°C in a cool, dry, frost-free environment. Flortex Freeflow PU has a maximum of twelve months shelf life when stored in the original, unopened containers.

- Product should be protected from other trades using Kraft paper or similar breathable material. Polythene should not be used.
- Protect the floor from damp, condensation, and water for at least 24 hours at 20°C before and after installation.
- Flortex Freeflow PU is NOT UV stable so yellowing will occur under UV exposure.
- 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.
- If laid in cold conditions, rolled late or where there is less than 2mm free flowing material, surface defects such as roller patterning may not fully drop out.
- When laid Flortex Freeflow PU systems have a flat matt finish, this polishes to a silky wearing finish with time and traffic.
- Flortex Freeflow PU is produced by a batch manufacturing process, despite controlled manufacturing procedures and tolerances, variations in colour can occurred between different batches. Products from different batches should not be used in the same area or on surfaces close together.

PLEASE NOTE

At lower temperatures the cure times will be increased

Pot Life:	15 minutes
Pedestrian Traffic:	18 hours
Light Wheeled Traffic:	24 hours
Full Traffic:	48 hours
Full Cure:	7 days

Technical data after 28 Days at 20°C

Compressive Strength	> 45 N/mm2
Shore D Hardness	> 80
Bond Strength	> 3.0 Nmm2 (Concrete Failure)
Slip Resistance	SL 23 Dry > 50
Pendulum Test to BS7976-2	SL 46 Dry > 60 Wet and Anti Slip finish.
VOC	Consult Polycote UK LLP Technical Department 30g/l Based on a fully mixed unit
Chemical Resistance	Excellent general chemical resistance. For specific reagents contact Polycote UK LLP Technical Department.

Clean all equipment immediately after use with Polycote’s Solvent Cleaner.

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.

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.