



# IF PUSL 10 D

## Self-Smoothing Epoxy Polyurethane Floor Topping

Pack Size  
25Kgs

## TDS Technical Data Sheet



### Description

IF PUSL 10 D is a specially formulated, self-smoothing epoxy polyurethane resin floor finish that combines exceptional wear resistance with chemical durability and aesthetic appeal. This flooring system is ideal for environments where a seamless, joint-free finish is critical, such as laboratories, clean rooms, and light industrial spaces.

### Features

Hard wearing - durable with low maintenance costs Good abrasion resistance, withstands foot and vehicular traffic Resistant to a wide range of chemicals and liquids Seamless - easily cleaned to maintain high standards of hygiene Self-smoothing properties provide a flat, high-gloss finish Hygienic

### Standard Colours

Available to any standard RAL Card upon request.

### Surface Preparation

Ensure that IF PUSL 10 D is applied to sound, clean, and dry surfaces for optimal adhesion. Note that thin coatings will reflect the surface texture of the substrate, and high spots may lead to premature wear of the coating. Proper surface preparation is crucial to achieving a smooth, durable finish.

### Substrate Preparation

The concrete surface must be hard, sound, and free of dust, paint, lime coatings, plaster, curing agents, laitance, adhesive residues, and other contaminants that may impede adhesion. Use a suitable degreaser to remove substances like polish, wax, grease, or oil before mechanical preparation. Contaminated surfaces should be prepared by scabbling, grinding, or contained shot blasting, followed by thorough vacuuming. Weak concrete surfaces should be removed down to solid concrete. All joints or cracks where differential movement is anticipated should be brought through to the finished surface. Allow new concrete slabs to cure for at least 14 days.

### Priming

Prime all surfaces to be treated with IF PUSL 10 D using CLI N18 Solvent Free Epoxy Primer. Depending on the substrate's condition and porosity, one or more coats may be required. High porosity substrates should be treated with two coats of the primer to avoid blistering or pinholing.

### Mixing

Thoroughly stir the individual components of IF PUSL 10 D before mixing them together. Pour the entire contents of Part B into a larger mixing vessel, followed by Part A. Mix the components thoroughly with a spiral mixing paddle at a slow speed until a consistent, homogenous mixture is achieved. If needed, mix multiple packs simultaneously for a quicker installation. Avoid leaving the mixed material in the container for extended periods, as it will generate heat and lose its working time.

## Application

Apply the mixed IF PUSL 10 D material to the prepared and primed surface without delay, using a trowel or depth set rake to achieve the desired thickness. As the material is laid, gently roll the surface with a spiked roller to release any entrapped air and to blend out trowel marks. Protect the work area during installation and the initial curing process to prevent contamination by debris, which could result in blemishes on the finished surface.

## Limitations

IF PUSL 10 D should not be applied to floors with rising moisture or relative humidity above 75% at the time of application. The product should not be used in temperatures below 10°C or where ambient humidity exceeds 85%. If moisture is present in the concrete, treat the surface with CLI DPM Surface Damp Proof Membrane as per the product's recommendations. Discard any mixed material that exceeds its pot life, as its viscosity and characteristics will change, compromising the final finish. Avoid using steam or hot water above 50°C to clean the surface.

## Cleaning

Clean tools and equipment with AC Thinner immediately after use. Hardened material will require mechanical removal.

## Properties

The following values are typical of results obtained in laboratory conditions at 27 ± 1°C. Actual performance may vary.

## Physical Properties

Pot life	:20 mins
Mixed Density:	1.33-1.43 g/cc
Initial hardness	: 24 hours
Full cure:	7 days
Application Thickness:	1 mm
Shore D Hardness:	>70
Bond Strength (after 1 day):	> 1.50 N/mm <sup>2</sup>
Compressive strength:	> 90.0 N/mm <sup>2</sup>
Flexural strength:	> 60.0 N/mm <sup>2</sup>
Tensile strength:	> 24.0 N/mm <sup>2</sup>
Mixing Ratio:	As specified on the container

## Coverage Estimates

Approximately 4.5 m<sup>2</sup> per coat at 1 mm thickness. Actual coverage may vary depending on the substrate's condition and application method.

## Storage and Shelf Life

IF PUSL 10 D has a shelf life of 12 months if stored in a dry location between 5°C and 30°C in its original unopened containers. Protect the product from frost, direct sunlight, and heat sources.

## Pack Size

25Kgs



**Data Reliability**

All technical data provided in this document are based on laboratory tests. Actual performance may vary due to factors beyond our control.

**Regional Compliance**

Product specifications may vary based on local regulations. Please refer to the local Product Data Sheet for precise information.

**Legal Disclaimer**

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