



# IF 25 CU

**Epoxy Modified Cementitious Floor**

**Screed**

**Pack Size**

**21.80Kg**

## TDS Technical Data Sheet



### Description

IF 25 CU is a specialized, self-leveling, epoxy-modified cementitious floor screed. It is designed to deliver exceptional durability with enhanced chemical resistance and decorative properties. This product is ideal for areas demanding a seamless, joint-free finish with maximum cleanliness, such as clean rooms and light industrial environments. When over-coated with epoxy coatings like IF 21 EP, the chemical resistance is further enhanced, making it perfect for high-hygiene areas.

### Features

Toxic-free and solvent-free for safe interior applications. Exceptional resistance to wear and abrasion, ensuring longevity. Excellent slip resistance suitable for both vehicular and foot traffic. Compatible with cementitious toppings and applicable on damp concrete surfaces. Provides the combined strength of both cement and epoxy.

### Substrate Preparation

The concrete surface must be hard, sound, and free from dust and other barrier materials such as paint, lime coatings, plaster, curing agents, laitance, adhesive residues etc. that will inhibit adhesion to the substrate. Use a suitable degreaser to remove contaminants like polish, wax, grease, and oil before mechanical preparation. Mechanically prepare contaminated concrete surfaces through scabbling, grinding, or contained shot blasting, followed by vacuum cleaning before applying IF 25 CU. Weak concrete surfaces should be prepared down to solid concrete using mechanical methods. Ensure that all dust and debris are removed with vacuum equipment. Any joints or cracks where differential movement is anticipated must be brought through to the finished surface. Allow new concrete slabs to cure for at least 14 days before application.

### Priming

All concrete surfaces to be treated with IF 25 CU must be primed with IF N18 Moisture Insensitive Primer. Depending on the condition and porosity of the substrate, two or more coats of primer may be necessary. Poorly primed surfaces may result in blistering or pinholes in the cured resin. Ensure the primer is dried for 24 hours before applying IF 25 CU.

### Mixing

Thoroughly stir the individual contents of IF 25 CU before mixing. Pour Part A and Part B into a larger mixing vessel to incorporate Part C. Mix thoroughly for 30 seconds in a medium duty drilling machine (600 rpm). Then, add Part C to the same container and continue mixing for 1 minute. Avoid using heavy-duty or high-speed drill machines (600-1000 rpm) for mixing IF 25 CU.

### Application

Apply the mixed IF 25 CU material to the prepared and primed surface immediately using a gauged notched trowel or depth-set rake to achieve the desired thickness. Complete one kit application (troweling and rolling) within 8-10 minutes at 30°C, including mixing time. After laying IF 25 CU, gently roll the surface with a spiked roller to release any entrapped air and smooth out any trowel marks. Avoid excessive rolling; one-time rolling in both directions is sufficient. Protect the work area during installation and initial curing to prevent

Product Data Sheet

IF 25 CU

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contamination by debris, which could cause blemishes on the hardened surface.

## Limitations

IF 25 CU should not be applied to floors that are known to have rising moisture or have relative humidity greater than 75% at the time of application. These products should not be applied in temperatures less than 10°C or where the ambient relative humidity exceeds 85%. Discard any mixed material that exceeds its pot life, as its viscosity and characteristics will change. Do not steam, clean or use hot water above 50°C to wash the surface.

## Cleaning

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

## Properties

The values below are typical results obtained in a laboratory setting at 27 ± 1°C. On-site performance may vary.

## Physical Properties

|                        |                                                                                 |
|------------------------|---------------------------------------------------------------------------------|
| Pot life:              | 30 minutes                                                                      |
| Mixed Density          | 1.77 - 1.82 g/cc                                                                |
| Initial Hardness:      | 24 hours                                                                        |
| Full Cure              | 7 days                                                                          |
| Application Thickness: | 2-4 mm                                                                          |
| Mixing Ratio           | As specified on the container                                                   |
| Bond Strength          | After 7 Days: >1.5 N/mm <sup>2</sup><br>After 28 Days: >2.5 N/mm <sup>2</sup>   |
| Compressive Strength   | After 7 Days: 26.00 N/mm <sup>2</sup><br>After 28 Days: 31.00 N/mm <sup>2</sup> |
| Tensile Strength       | After 28 Days: 3.8 N/mm <sup>2</sup>                                            |
| Flexural Strength      | After 28 Days: 8.00 N/mm <sup>2</sup>                                           |
| Shore D Hardness       | After 28 Days: >70                                                              |
| Coverage Estimates     | Coverage: Approximately 7.0 m <sup>2</sup> @ 2 mm thickness                     |

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**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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