



IF 18 EP

Epoxy Self Leveling Screed

Pack Size

16Kgs

TDS
Technical Data Sheet



Features

- Highly durable with low maintenance costs
- Excellent resistance to a wide range of chemicals and liquids
- Seamless finish, easily cleaned to maintain high hygiene standards
- Self-smoothing properties provide a flat, high-gloss finish

Description

IF 18 EP is a specialist-applied, self-leveling epoxy resin floor finish that combines exceptional durability with chemical resistance and decorative appeal. It is ideal for environments where a seamless, joint-free finish is necessary and where cleanliness is critical, such as clean rooms and general light industry settings.

Surface Preparation

Proper surface preparation is essential to achieve maximum adhesion. IF 18 EP should be applied only to sound, clean, and dry surfaces.

Substrate Preparation

The concrete substrate must be solid, free from dust, and devoid of any barriers to adhesion, such as paint, lime coatings, plaster, curing agents, laitance, and adhesive residues. Use a suitable degreaser to eliminate contaminants like polish, wax, grease, and oil before mechanical preparation. Contaminated surfaces should be mechanically prepared via scabbling, grinding, or shot blasting, followed by vacuum cleaning. Any weak or overwatered concrete surfaces should also be treated down to solid concrete using mechanical methods. Remove dust and debris with vacuum equipment.

Priming

All areas to be treated with IF 18 EP must be primed using CLI IF 3 E Solvent-Based Epoxy Primer. Depending on the substrate's condition and porosity, one or more coats may be necessary. For highly porous surfaces, additional coats may be required. Poorly primed surfaces could lead to blistering or pinholes in the cured resin.

Mixing

Before mixing, each component of IF 18 EP should be thoroughly stirred. Pour the entire contents of Part A and Part B into a larger mixing vessel, then add Part C. Mix thoroughly with a spiral mixing paddle attached to a slow-speed drill until a homogeneous mixture is achieved. If multiple packs are mixed simultaneously, it will facilitate a quicker installation. Once mixed, the IF 18 EP will generate heat and lose its working time if left in the mixing container or bulk.

Application

The mixed IF 18 EP should be immediately applied to the prepared and primed surface using a trowel or depth set rake to achieve the .

desired thickness

As the material is applied, gently roll the surface with a spiked roller to release any trapped air and blend out trowel marks. Protect the work area during installation and the initial curing phase to prevent debris from contaminating the resin surface, which could cause unwanted blemishes.

Limitations

IF 18 EP should not be applied to floors with rising moisture or relative humidity above 75% at the time of application. The product should not be applied when temperatures are below 10°C or when the ambient relative humidity exceeds 85%. Once the mixed material has surpassed its pot life, it will change in viscosity and characteristics, rendering any unused product unusable. Do not use steam or hot water above 55°C to clean the surface.

Cleaning

Tools and equipment can be cleaned with AC Thinner immediately after use. Any hardened material will require mechanical removal.

Properties

The values shown are typical results obtained in laboratory conditions at 27 ± 1°C. Actual performance on-site may vary from these values.

Physical Properties

Pot Life:	60 minutes
Initial Hardness:	24 hours
Full Cure:	7 days
Application Thickness:	2-4 mm
Compressive Strength:	78 N/mm ² (EN 13892-2)
Tensile Strength:	11 N/mm ² (BS 6319 Part 7)
Bond Strength:	> 1.5 N/mm ²
Water Absorption:	< 1%
Shore D Hardness:	> 80

Coverage Estimates

Approximately 5.0 m² at 2 mm thickness (Note: These figures are theoretical. Actual coverage may be less due to wastage and the nature of the substrates.)

Storage and Shelf Life

IF 18 EP has a shelf life of 12 months when stored in a dry environment between 5°C and 30°C in its original, unopened containers. The product should be protected from frost, direct sunlight, and heat sources.

Chemical Resistance

IF 18 EP offers resistance to a wide range of liquids and chemicals. For detailed information, refer to the CLI "Chemical Resistance" chart.

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16Kgs



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

The information and recommendations regarding the application and end-use of Carbolink products are provided in good faith based on our current knowledge and experience. Due to variations in materials, substrates, and actual site conditions, no warranty of merchantability or fitness for a specific purpose can be inferred. The user must determine the product's suitability for the intended application. Carbolink reserves the right to change the properties of its products. All proprietary rights of third parties must be observed. Orders are subject to our current terms of sale and delivery. Always refer to the most recent local Product Data Sheet, available upon request.