

## **Description:**

IF 19 EP is a specialist applied, self-leveling, epoxy resin floor finish that combines outstanding wearing properties with chemical resistance and decorative properties. Ideally suited for areas requiring a seamless, joint-free finish where maximum cleanliness is essential, such as laboratories, clean rooms, and general light industry environments.

#### Features:

Hard wearing, durable with low maintenance costs 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

#### **Standard Colors:**

Available to any standard RAL Card upon request

#### **Surface Preparation:**

It is essential that IF 19 EP is applied to sound, clean, and dry surfaces to ensure maximum adhesion. IF 19 EP is designed for use as a thin coat application. Thin coatings will reflect the surface texture of the substrates, and high spots may lead to premature wear of the coating, thus appropriate surface preparation techniques should be chosen. The ideal substrate for application is a flat, lightly textured, clean concrete surface.

#### **Substrate Preparation:**

The concrete surface must be hard, sound, and free of dust and other barrier materials such as paint, lime coatings, plaster, curing agents, laitance, and adhesive residues that will inhibit adhesion to the substrate. Use a suitable degreaser to remove polish, wax, grease, oil, and similar contaminating substances before mechanical preparation. Contaminated concrete surfaces should be mechanically prepared, either by scabbling, grinding, or contained shot blasting equipment, and vacuumed clean before applying IF 19 EP. Overwatered or otherwise weak concrete surfaces must also be suitably prepared down to sound, solid concrete by mechanical methods. Dust and debris should be removed using vacuum equipment. Any joints or cracks in the concrete base where differential movement is anticipated, such as movement joints, should be brought through to the finished surface. New concrete slabs must be allowed to cure for at least 14 days.

## **Priming:**

All areas to be treated with IF 19 EP must first be primed with AC-Thinner Solvent Free Epoxy Primer. One or more coats of primer may be required depending on the condition and porosity of the concrete substrate. High porosity substrates may be revealed after preparation and will be evident by their rapid suction and absorption. If in doubt, use two coats of IF 3 E Solvent Free Epoxy Primer. Poorly primed surfaces may lead to blistering or pin holing in the cured resin.

#### wiixing:

The individual contents of IF 19 EP should be thoroughly stirred before being mixed together. Mix Part D with Part A and ensure smooth Product Data Sheet

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# IF 19 EP-TDS



mixing. The entire contents should be poured into a large mixing vessel to incorporate Part C and Part D. The four materials are mixed thoroughly with a spiral mixing paddle in a slow-speed drill. The mixing of all four components should continue until a consistent, homogeneous mix is achieved. One or more packs may be mixed simultaneously to ensure a quick rate of installation. Once mixed, IF 19 EP will generate heat and lose working time if it is left in the mixing container or otherwise kept in bulk.

# Application:

The mixed IF 19 EP material should be applied to the prepared and primed surface without delay using a trowel or depth set rake to achieve the desired thickness. As soon as IF 19 EP has been laid, and as work progresses, the surface should be gently rolled with a spiked roller to release any entrapped air from the mix and blend out any trowel marks. The work area should be protected during the installation process and during the initial curing time to ensure that no debris contaminates the surface of the resin, as this will lead to unwanted blemishes in the hardened, cured surface.

#### Limitations:

IF 19 EP 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 is greater than 85%. If moisture is present in the concrete, the entire surface should be treated with CLI DPM Surface Damp Proof Membrane mixed and applied according to the recommendations in the CLI product data sheet. Once the mixed material has exceeded its pot life, the viscosity and characteristics of the product will change, and any unused product should be discarded. Do not steam clean or use hot water above 55°C to wash the surface. All products are manufactured under strict Quality Assurance procedures; however, where color consistency is essential, it is recommended to use products from one batch wherever possible.

## Cleaning

IF 19 EP can be removed from tools and equipment by using AC-Thinner immediately after use. Any hardened material will need to be removed mechanically.

# **Properties:**

The values shown are typical of results obtained in the laboratory at 27  $\pm$  1°C. Actual performance values obtained on-site may vary from those quoted.

# **Physical Properties**

Filysical Floperties	
Pot life	: 30 mins
Initial hardness	: 24 hours
Full cure:	7 days Bond
strength:	> 1.5 N/mm²
Compressive strength:	70 N/mm²
Flexural strength:	31 N/mm²
Tensile strength:	23 N/mm²
Shore D Hardness:	>70

## Storage and Shelf Life:

IF 19 EP has a shelf life of 12 months if kept in a dry store between 5°C and 30°C in the original unopened containers. The product should be protected from frost, away from direct sunlight and sources of heat.

## **Chemical Resistance:**

IF 19 EP is resistant to a wide range of liquids and chemicals; for specific information, please refer to the CLI "Chemical Resistance" chart.

#### **Coverage Estimates:**

16 kg: Approximately 4.70 m² @ 2 mm thick 11 kg: Approximately 7.5 m² @ 1 mm thick





## **Pack Size**

16.5Kgs



#### **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.