

Carbolink's Solutions for Industrial Flooring

IF 18 EP



**Industrial Flooring Product
Specifications & Technical
Data Sheets(TDS)**

**India's Most Preferred
Construction Chemical Manufacturing Brand**



Carbolink India Pvt. Ltd.

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Carbolink India Pvt. Ltd. COMPANY PROFILE



For years, Carbolink India has been the Quality Leader in offering excellent Construction Chemical Products with Supreme Quality and Reliability.

Carbolink India Manufactures Industrial Flooring(Epoxy & PU Flooring), Decorative Flooring, 3D Flooring, Waterproofing Systems, corrosion protection, wood coatings, etc. which cater specifically to the Indian climate. With manufacturing facility in India, Carbolink India manufactures and supply Materials all through the country. Carbolink's commitment to customer service and technical support is the best. We work closely with architects, structural engineers, contractors and owners to best understand their requirements. Together we develop a best solution for a construction project, adding value and becoming more than just a materials supplier, but a solution provider.

With the support of our multinational manufacturing group, Carbolink India today has support centers across the country, strategically placed to provide consistent high standards of product and service.

Our Product Range:

- Anti Corrosive Coatings
- Car Park Flooring
- Curing Compounds
- Decorative Flooring
- Floor Hardner
- Grouts & Anchors



- Industrial Flooring
- Repairing Compunds
- Sealants
- Sports Flooring
- Tiling Products
- Wood Coatings



Industrial Flooring

Specialist applied, polyurethane resin floor finishes, combining outstanding wearing properties with high chemical resistance and pleasing decorative properties. Ideally suited in aggressive areas where a seamless, joint free finish is required and maximum cleanliness is essential. Factories and general heavy duty plant and traffic areas are just some of the environments that can benefit from the tough chemically resistant system.

Carbolink manufactures a full range of world class Industrial Flooring systems providing the most up-to-date technologies. Carbolink India is a leader in tailored Industrial Flooring Solutions.

Here is our Technical Description of IF 18 EP :





IF 18 EP

Epoxy Self Leveling Screed

HIGH PERFORMANCE, EPOXY RESIN FLOORING SYSTEM, SUPPLIED AS THREE PARTS IN A PRE-MEASURED PACK FOR EASE OF ON SITE MIXING AND USE. THE CURED RESINS FORM A SMOOTH, TOUGH 2.4mm LAYER, WHICH CAN BE EASILY CLEANED

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

DESCRIPTION

A specialist applied, self-levelling, epoxy resin floor finish combining outstanding wearing properties with chemical resistance and decorative properties. Ideally suited in areas where a seamless, joint free finish is required and maximum cleanliness is essential. Clean rooms, and general light industry are just some of the environments that can benefit from this system.

SURFACE PREPARATION

It is essential that IF 18 EP is applied to sound, clean and dry surfaces to ensure maximum adhesion.

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, adhesive residues etc., that will inhibit adhesion to the substrate.

Use a suitable degreaser to remove polish, wax, grease, oil and similar contaminating substances prior to mechanical preparation. Contaminated concrete surfaces should be mechanically prepared, either by scabbling, grinding or contained shot blasting equipment or similar, and be vacuumed clean prior to applying IF 18 EP. Overwatered or otherwise weak concrete surfaces must also be suitably prepared down to sound, solid concrete by mechanical methods. Dust and other debris should be removed using vacuum equipment.

NOTE : Any joints or cracks in the concrete base where differential movement is anticipated e.g. 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 18 EP must first be primed with CLI IF 2 E Solvent Based Epoxy Primer. One or more coats of primer may be required depending upon the condition and the 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 CLI IF 2 E Solvent Based Epoxy Primer. Poorly primed surfaces may lead to blistering or pin holding in the cured resin.

MIXING

The individual contents of the IF 18 EP should be thoroughly stirred before being mixed together. The entire contents of the Part A and Part B should be poured in to a larger mixing vessel to incorporate the Part C. Mix thoroughly with a spiral mixing paddle in a slow speed drill. Finally the Part C is added to the same vessel together and the mixing of all the three should continue until a consistent homogenous mix is achieved. One or more packs may be mixed simultaneously to ensure a quick rate of installation.

NOTE: Once mixed, the IF 18 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 18 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 the R 24 CE has been laid and as work progresses, the surface should be gently rolled with a spiked roller in order to release any entrapped air from the mix also to 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 can contaminate the surface of the resin, as this will lead to unwanted blemishes in the hardened, cured surface.

LIMITATIONS

IF 18 EP should not be applied to floors that are known to have rising moisture or have relative humidity of 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%. Once the mixed material has exceeded its pot life, the viscosity and the characteristics of the product will change and any unused product should be discarded at this time. Do not steam, clean or use hot water above 55°C to wash the surface.

NOTE: All products are manufactured under strict Quality Assurance procedures.

CLEANING

IF 18 EP can be removed from tools and equipment by using CLI RTC 100 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 $27 \pm 1^\circ\text{C}$. Actual performance values obtained on site may vary from those quoted.

PHYSICAL PROPERTIES

IF 18 EP	@ $27 \pm 1^\circ\text{C}$
Pot life	60 mins
Initial hardness	24 hours
Full cure	7 days
Application thickness	2 - 4 mm
Compressive strength	78 N/mm ²
EN13892-2	
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

Pack size	Coverage
16.68kg	Approximately
Part A 3.88kg	5.0 m ² @ 2 mm
Part B 2kg	thick
Part C 10.8kg	

NOTE : These figures are theoretical, due to the wastages and the variety and nature of substrates practical coverage figures may be reduced.

STORAGE AND SHELF LIFE

IF 18 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 18 EP is resistant to a wide range of liquids and chemicals, for specific information please refer to the following CLI "Chemical Resistance" chart.

MAINTENANCE

Good housekeeping and regular cleaning is essential in order to maintain the performance of IF 18 EP. It is particularly importance in areas that are subject to regular spillage of chemicals. Spillages should not be allowed to dry, which results in higher concentrations of the chemicals, which may lead to early failure. Regular cleaning of the surface with a rotary scrubbing machine in conjunction with a water miscible cleaning agent or hot water washing at temperatures up to 50°C is recommended.

PRECAUTIONS

In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice and after contact with the skin wash immediately with plenty of soap and water (do not use solvents). Prolonged contact with the skin should be avoided, especially where the user has an allergic reaction to epoxide materials. Always wear gloves and eye/face protection is necessary. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. Care should be taken when removing gloves to avoid contaminating the insides. In case of accidents seek medical advice.

DISPOSAL/SPILLAGE

Spillage of any of the component products should be absorbed onto sand or other inert materials and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations.

CONDITIONS OF SALE

Sold subject to the Company's conditions of sale which are available on request.

NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

**India's Most Trusted
Construction Chemical Manufacturing Brand**



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