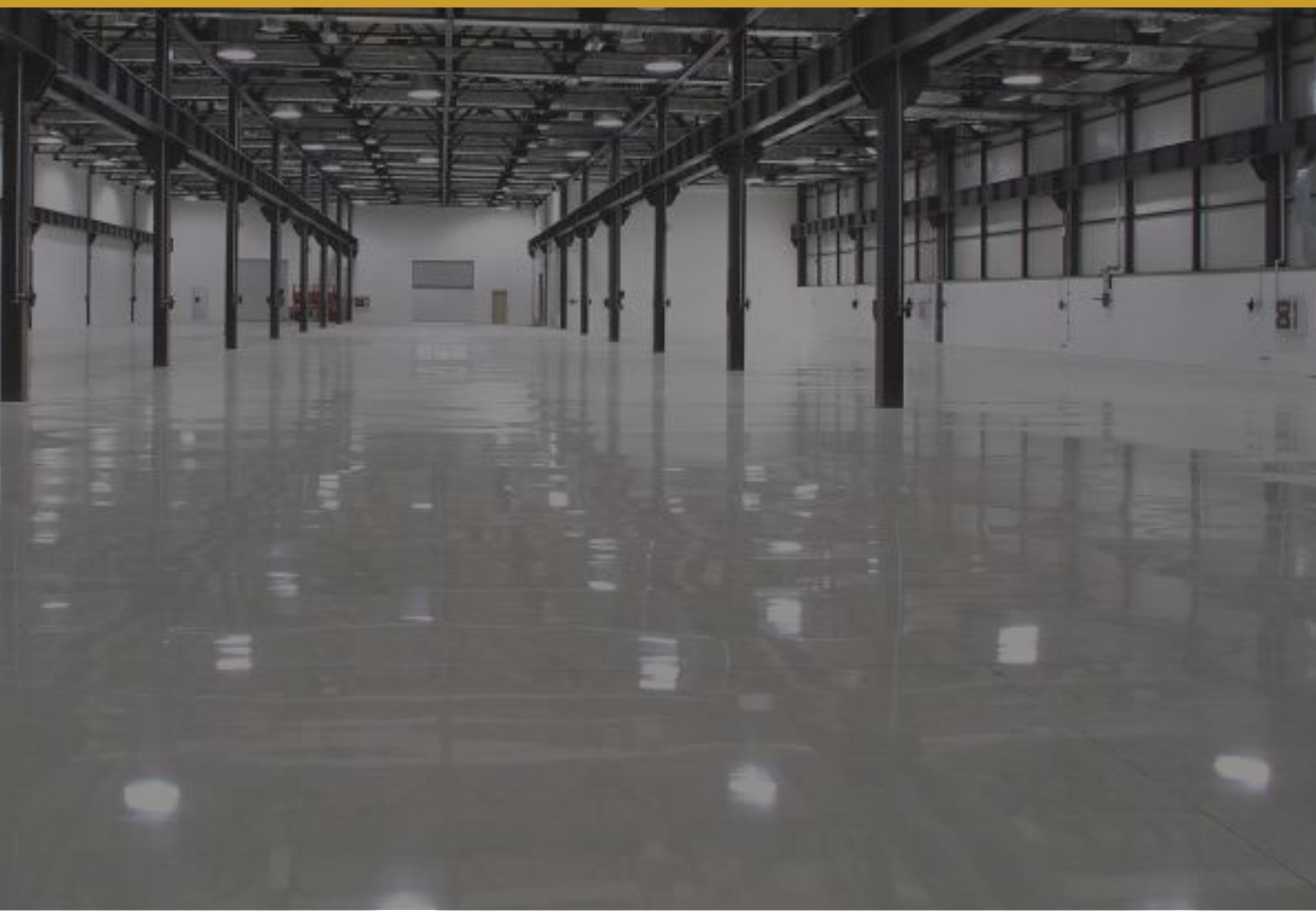
Carbolink's Solutions for Industrial Flooring

IF 25 CU



Industrial Flooring Product Specifications & Technical Data Sheets(TDS)

India's Most Preferred
Construction Chemical Manufacturing Brand

Carbolink India Pvt. Ltd.
WWW.CARBOLINKINDIA.COM

Carbolink India Pvt. Ltd.
COMPANY PROFILE

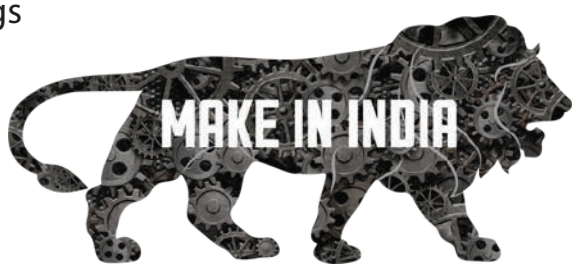
For years, Carbolink India has been the Quality Leader in offering excellent Construction Chemical Products with Supreme Quality and Reliability.

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 Coumpounds
- Decorative Flooring
- Floor Hardner
- Grounts & Anchors



- Industrial Flooring
- Reparing 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 Descripotion of IF 25 CU :

IF 25 CU

Epoxy Modified Cementitious Floor Screed

GOOD PERFORMANCE, SUPPLIED AS THREE PARTS IN A PRE-MEASURED PACK FOR EASE OF ON SITE MIXING AND USE

FEATURES

Toxic free, solvent free, interiors application
Excellent resistance to wear & abrasion
Excellent slip resistance to vehicular & foot traffic
Suitable with cementitious toppings
Suitable on damp concrete surface
Provides combining strength of both cement & epoxy

DESCRIPTION

A specialist applied, self-levelling, epoxy modified cementitious floor screed 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. When over coated with Epoxy coating like IF 21 EP Solvent Free High Build Epoxy Coating, the chemical resistance properties are enhanced. It is also suited for the areas where high hygiene is required.

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 application of IF 25 CU. 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 of concrete surfaces to be treated with IF 25 CU must first be primed with a IF N18 Moisture Insensitive Primer. Two or more coats of primer may be required depending upon the condition and the porosity of the concrete substrate. Poorly primed surfaces may lead to blistering or pinholes in the cured resin. Before applying IF 25 CU make sure the primer is dried for 24 hours.

MIXING

The individual contents of the IF 25 CU should be thoroughly stirred before being mixed together. The entire contents of the Part A and Part B should be poured into a larger mixing vessel to incorporate the Part C. Mix thoroughly for 30 seconds in a medium duty drilling machine (600 rpm). Finally the Part C is added to the same container. The mixing of all the three should continue for 1 minute do not mix for more than 1 minute. Particularly for mixing IF 25 CU do not use heavy duty or high speed drill machine (600 - 1000 rpm).

APPLICATION

The mixed IF 24 CU material should be applied to the prepared and primed surface without delay using a gauged notched trowel or depth set rake to achieve the desired thickness. One kit application should be completed (Trowel & Rolling) within 8 - 10 minutes at 30°C including mixing time. As soon as the IF 25 CU is 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. Do not use more rolling, it should be one time rolling with both direction. The work area should be protected during the installation process and during the initial curing time to ensure that no debris contaminate the surface of the resin, as this will lead to unwanted blemishes in the hardened, cured surface.

LIMITATIONS

IF 25 CU 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 degrees 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 50 degrees C to wash the surface.
NOTE : All CLI products are manufactured under strict Quality Assurance procedures; however it is recommended that where colour consistency is essential, wherever possible, products from one batch should be used.

CLEANING
IF 25 CU can be removed from tools and equipment by using CLI RTC 100 cleaner 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 ± 1 degree C. Actual performance values obtained on site may vary from those quoted.

PHYSICAL PROPERTIES

IF 25 CU	@ 27 ± 1ºC
Pot life	30 mins
Mixed Density	1.77 - 1.82 gram/cc
Initial hardness	24 hours
Full cure	7 days
Application Thickness	2 - 4 mm

BOND STRENGTH

after 7 days	>1.5 N/mm²
After 28 days	>2.5 N/mm²

COMPRESSIVE STRENGTH

after 7 days	26.00 N/mm²
after 28 days	31.00 N/mm²

TENSILE STRENGTH

after 28 days	3.8 N/mm²

FLEXTURAL STRENGTH

after 28 days	8.00 N/mm²

SHORE D HARDNESS > 70.00
after 7 days

COVERAGE ESTIMATES

Pack size	Coverage
26.25kg	Approximately
2 Part A 1.50kg	7.0m @ 2mm thick
Part B 4.50kg	
Part C 20.25kg	

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 25 CU has a shelf life of 6 months if kept in dry condition between 5 degrees C and 30 degrees C in the original unopened containers. The product should be protected from frost, away from direct sunlight and sources of heat.

PRECAUTIONS
During mixing and application the following precautions should be observed: ensure adequate ventilation and avoid contact of the material with the eyes, nasal passages, mouth and unprotected skin. Avoid contact with the hands by wearing protective gloves and by using, if necessary, a suitable barrier cream. 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 resin-based materials. Always wear gloves and eye / face protection as 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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