

**Carbolink's Solutions for Industrial Flooring**

**IF 24 EP**



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

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



**Carbolink India Pvt. Ltd.**

[WWW.CARBOLINKINDIA.COM](http://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 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 24 EP :







## IF 24 EP

### Solvent Based Epoxy Coating

GOOD PERFORMANCE, SOLVENT BASED EPOXY RESIN FLOOR COATING,  
SUPPLIED AS TWO PARTS IN PRE-MEASURED PACKS FOR EASE OF  
ON SITE MIXING AND USE. THE CURED RESIN FORMS A TOUGH,  
EASILY CLEANED COATING

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#### FEATURES

Hard wearing - durable with low maintenance costs  
Easily cleaned  
Available in a range of colours  
Provides gloss finish

#### STANDARD COLORS

Available to any standard RAL Card upon request

#### DESCRIPTION

IF 24 EP provides a hard wearing, easily cleaned surface in industrial environments where a degree of hygiene is required. It is suitable for use in workshops, production and processing areas, dairies, soft drinks and bottling plants, breweries, kitchens any floor areas subject to wet working.

#### SURFACE PREPARATION

It is essential that IF 24 EP is applied to sound, clean and dry surfaces to ensure maximum adhesion. It is designed for use as thin coat application.

**NOTE** : Thin coatings will reflect the surface texture of the substrate and as such high spots may lead to premature wear of coating, thus surface preparation techniques should be chosen appropriately. The ideal substrate for application is a flat, lightly textured, clean concrete surface. A two coat application is recommended.

#### 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, preferably either by grinding or light contained shot blasting equipment or similar, and be vacuumed clean prior to applying IF 24 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 6 weeks.

High porosity substrates may be revealed after preparation and will be evident by their rapid suction and absorption. In these cases a priming coat of CLI IF 2 E Solvent Based Epoxy Primer is advisable before applying the IF 24 EP. Dense, high porosity surfaces typically provided by rapid setting pumped screeds will require an appropriate primer. For all proprietary products used as substrates, please refer to the manufacturer's instructions for advice on priming.

#### MIXING

The individual contents of the IF 24 EP should be thoroughly stirred before being mixed together. The entire contents of Part B should be poured into Part A and the two materials mixed thoroughly for at least 3 minutes using a heavy duty slow speed drill with spiral paddle. Some of the mixed components should be reintroduced back into the hardener container in order to activate any residue and then poured back into the larger mixing vessel and re-mixed for 30 seconds. Mixing in this way will ensure product consistency and that any resin that remains in the containers after application will cure to provide for easier waste disposal.

**NOTE** : Once mixed, the IF 24 EP will generate heat and lose working time if it is left in the mixing container or otherwise kept in bulk.

#### COATING

Once mixed the IF 24 EP should be poured directly onto the floor and distributed without delay to the prepared surface using a brush or short / medium pile roller. Ensure that the entire surface is coated and that 'ponding' of the material does not occur. A second coat is applied as soon as the first coat has initially dried (typically 8 to 10 hours). This time will vary depending upon the condition of the surface and the ambient temperature. Provision for ventilation and air movement will be required. When using new rollers, ensure that all loose fibres are removed prior to use, any loose fibres released from the roller will cause unsightly blemishes in the finished coating.

## SLIP RESISTANT FINISH

A fine textured finish with improved slip resistance may be achieved by the use of Fine Aggregate. Following the application of the first coat of IF 24 EP a scatter of Fine Aggregate should be applied into the wet coating to seed the surface, taking care to achieve a uniform distribution. The second application of IF 24 EP will then encapsulate the fine aggregate.

**NOTE** : The coverage rate of the pack will be reduced.

## LIMITATIONS

These products should not be applied at temperature less than 10°C or where the ambient relative humidity is greater than 85%.

**NOTE** : The rate of wear of this coating will be increased in areas of concentrated foot and vehicle traffic, in particular, doorways, work benches, drinks dispensers etc. It is advisable in such areas to provide for additional coat product or specify a higher performance treatment.

Once the mixed material has exceeded its pot life the viscosity and the characteristics of the product changes and any unused product should be discarded at this time.

**NOTE** : All CLI products are manufactured under strict Quality Assurance procedures, however, it is recommended where colour consistency is essential, wherever possible, products from one batch should be used.

## CLEANING

IF 24 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 ± 1°C. Actual performance values obtained on site may vary from those quoted.

### PHYSICAL PROPERTIES

IF 24 EP	@ 27 ± 1°C
Pot life	2 - 3 hours
Time between coats	8 - 10 hours
Walkability	24 hours
Full cure	7 days
Dry film thickness	100 microns per
for two or more coats	coat
Bond strength	> 2.0 N/mm <sup>2</sup>
7 days	

### COVERAGE ESTIMATES

Pack size	Coverage
6kg	18 - 22 m <sup>2</sup> per pack
Part A 4.440kg	per coat at
Part B 1.560kg	100 microns per coat

**NOTE** : These figures are theoretical, due to the wastages and the variety and nature of substrates practical coverage figures may be reduced. Marking out areas to be covered per pack or for a number of packs provides a method of ensuring the correct and uniform coverage.

### STORAGE AND SHELF LIFE

IF 24 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.

### COLORS

IF 24 EP is available to any standard RAL Card upon request.

### MAINTENANCE

Good housekeeping and regular cleaning is essential in order to maintain the performance of IF 24 EP. It is particularly important in areas that are subject to regular spillage. Spillages should not be allowed to dry, which results in higher concentrations of the materials, 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

The hardener is classified as corrosive and the epoxy resin can be irritating to the eyes and skin, and may cause sensitization by contact. They are considered harmful in contact with the skin and if swallowed. 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 epoxide materials. Always wear gloves and eye/face protection as necessary. Observe personal hygiene, particularly washing the hands after work has 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 material 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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