

Carbolink's Solutions for Industrial Flooring

IF 23 EP(WB)



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 23 EP(WB) :





IF 23 EP(WB)

Epoxy Coating for Potable System

HIGH PERFORMANCE, EPOXY POTABLE COATING FOR FLOORS AND WALLS, SUPPLIED AS TWO COMPONENTS IN PRE-MEASURED PACKS FOR EASE OF ON SITE MIXING AND USE. THE CURED RESIN FORMS A TOUGH, EASILY CLEANED COATING

FEATURES

Solvent free, Toxic free
Hard wearing, durable with low maintenance cost
It can be used for food storage and potable water application for floor and walls
Resistance to a range of chemicals and liquids
Provides a glossy finish
High abrasion resistance and corrosion resistant
Suitable for concrete, mild steel substrate
Easily cleaned
Conforms to the overall migration standards laid down in 21 CFR 175-300 of US - FDA certified by CFTRI

DESCRIPTION

To provide a tough, hard wearing, easily cleaned waterproofing surface where a degree of higher resistance to chemicals is required. It is suitable for use in water tanks, water treatment works, production and processing areas, dairies, soft drinks and bottling plants, breweries, kitchen any floor areas subject to wet working and possible chemical spillage.

SURFACE PREPARATION

It is essential that IF 23 EP(WB) is applied to sound, clean and dry surfaces to ensure maximum adhesion. IF 23 EP(WB) is designed for use as a build dry film thickness 200 micron application per two coat.

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

SUBSTRATE PREPARATION

IF 23 EP(WB) treated 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 23 EP(WB). 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 and suitably sealed. 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

MIXING

The individual contents of the IF 23 EP(WB) should be thoroughly stirred before being mixed together. The entire contents of Part B should be poured into the Part A and the two materials mixed thoroughly for at least 3 minutes using heavy duty slow speed drill and 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 23 EP(WB) 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 23 EP(WB) 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 16 to 18 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.

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 dispenses etc. It is advisable in such areas to provide for additional coats 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 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 23 EP(WB) 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 23 EP(WB)	@ 27 ± 1°C
Pot life	40 mins
Mixed density	1.62 - 1.70g/cc
Time between coats	16 - 18 hours
Walkability	24 hours
Full cure	7 days
Bond strength	> 1.50 N/mm ²
Potability test	21 CFR 175 - 300

COVERAGE ESTIMATES

Pack size	Coverage
7kg	Approximately
Part A 5.95kg	40 m ² per pack /
Part B 1.05kg	coat @ around 100 microns thickness (2 coat is minimum)

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 23 EP(WB) 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 23 EP(WB) 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 23 EP(WB). 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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