



IF 23 EP(WB)

Water based Epoxy Primer

**Pack Size
10Kgs**

**TDS
Technical Data Sheet**



Product Description

IF 23 EP(WB) is a solvent-free, toxic-free, hard-wearing, and durable water-based epoxy primer. It provides a tough, easily cleaned waterproofing surface with high resistance to chemicals and abrasion. Suitable for concrete and mild steel substrates, it is used in various applications such as food storage, potable water areas, water tanks, treatment works, production areas, and processing areas.

Features

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

Surface Preparation

It is essential that IF 23 EP(WB) is applied to sound, clean, and dry surfaces to ensure maximum adhesion. It is designed for use as a build dry film thickness of 200 microns per two coats. Thin coatings will reflect the surface texture of the substrates, so surface preparation techniques should be chosen appropriately. The ideal substrate for application is a flat, lightly textured, clean concrete surface.

Substrate Preparation

The 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. 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.

Mixing

The individual contents of IF 23 EP(WB) 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 and spiral paddle. Some of the mixed components should be reintroduced back into the hardener container to activate any residue and then poured back into the larger mixing vessel and re-mixed for 30 seconds. Once mixed, the product should be poured directly onto the floor and distributed without delay.

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.

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A second coat is applied as soon as the first coat has initially dried (typically 16 to 18 hours).

Limitations

These products should not be applied at temperatures less than 10°C or where the ambient relative humidity is greater than 85%. The rate of wear of this coating will be increased in areas of concentrated foot and vehicle traffic. It is advisable in such areas to provide additional coats or specify a higher performance treatment.

Cleaning

IF 23 EP(WB) can be removed from tools and equipment by using AC Thinner immediately after use. Any hardened material will need to be removed mechanically.

Properties

Pot Life:	40 mins
Mixed density	1.62 - 1.70 g/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
Mixing ratio:	As specified on the container

Coverage Estimates

40 m² per pack coat @ around 100 microns thickness (2 coats minimum) NOTE: These figures are theoretical; practical coverage figures may be reduced due to wastages and the variety and nature of substrates.

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.

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10Kgs



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.