

Carbolink's Solutions for Industrial Flooring

IF 10 CE



**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 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 10 CE :





IF 10 CE

Two Component Water Based Polyurethane Floor And Wall Coating

HIGH PERFORMANCE, POLYURETHANE RESIN COATING, SUPPLIED AS TWO PARTS IN PRE-MEASURED PACKS FOR EASE OF ON SITE MIXING AND USE. THE CURED SYSTEM FORMS A TOUGH, EASILY CLEANED, LAYER ON CONCRETE, EPOXY AND POLYURETHANE TOPPING.

FEATURES

- For floors and walls
- Very high chemical resistance
- Hard wearing
- Hygiene
- Easy cleaning
- Anti-fungal, anti-bacterial

STANDARD COLORS

Available to any standard RAL Card upon request

DESCRIPTION

IF 10 CE is a two component water based polyurethane floor and wall coating. IF 10 CE can be extensively used for applications where a thin coating is required to reduce texture or improve appearance and cleaning. IF 10 CE is also suitable for application on previously applied epoxy, polyurethane floor and walls.

SURFACE PREPARATION

All substrates must be clean and free from dust and loose particles. All traces of contaminants, such as oils, fats, greases, paint residues, chemicals, algae and other barriers to adhesion should be removed.

Good surface preparation is vital to ensure the successful application and performance of IF 10 CE. As IF 10 CE is used on previously applied polyurethane floors appropriate surface preparation techniques will depend on the condition of the floor. If the floor is less than 48 hours old the IF 10 CE can be applied directly after any dust and contamination is removed. Older floors will require surface grinding or abrasion with a coarse nylon pad in combination with a strong alkali detergent.

MIXING

Pour the contents of Part A and Part B into a large mixing bucket and mix using a small helical mixing paddle and electric drill for 30 seconds. Add approximately 2 Litres of water mix all the three parts until uniform homogenous mix.

APPLICATION

The mixed material should be applied without delay to the prepared substrate using a brush, roller or rubber squeegee, depending on thickness and finish required.

LIMITATIONS

Only apply IF 10 CE at temperatures above 5°C and where the atmospheric relative humidity (RH) is 90% or below. Do not apply when atmospheric condensation may occur before the IF 10 CE is fully cured.

The working time is approx. 30 - 45 minutes. Multiple units may be mixed but do not mix more material than can be applied within the 30 - 45 minutes working time. Attempting to use the IF 10 CE more than 30 - 45 minutes after mixing will result in a patchy, variable finish.

CLEANING

IF 10 CE can be removed from tools and equipment by washing in clean water 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 10 CE	@ 27 ± 1°C
Working time	30 - 45 mins
Mixed Density	1.15 - 1.25 g/cc
Light traffic	24 hrs
Full traffic	48 hrs
Full chemical cure	7 days

Bond strength at 24 hours	
Concrete	> 2 N/mm ²
Epoxy	> 2 N/mm ²
Polyurethane	> 2 N/mm ²

Konig pendulum hardness	~ 92s
DIN EN ISO 1522 after 7 days curing at 23°C and 50% RH 120um wet film thickness on glass	

Pencil hardness (gouge)	>= 2 H
ISO 15184:1998 after 7 days curing at 23 degrees C and 50% RH 120 micron wet film thickness on glass	

Gloss (60 degrees/85 degrees)%	4.5 / 8.9
ISO 2813:1978 after 7 days curing at 23 degrees C and 50% RH 120 micron wet film thickness on glass	

Impact (kg.cm)	>= 50
ASTM2794 after 7 days curing at 23 degrees C and 50% RH 23 micron film thickness on tin-steel	

Bend (mm)	<= 1
ISO 1519 after 7 days curing at 23 degrees C and 50% RH 23 micron film thickness on tin-steel	

Abrasion	~ 50 mg
ASTM D 4060, CS 10 abrading wheel / 10 N load, 1000 cycles Taber abrader after 7 days curing at 23 degrees C and 50% RH	

Alcohol (100%) double rub, 350g load (cycles) 120um wet film thickness on glass, 7 days curing at 23°C and 50% RH	>200
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MEK double rub, 350g load (cycles) 120um wet film thickness on glass, 7 days curing at 23°C and 50% RH	>200
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COVERAGE ESTIMATES

Pack Size	Coverage
6kg	Approx. 40 m ²
Part A 5kg	(After adding 2 litres of water)
Part B 1 kg	(70 - 80 microns)

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 10 CE has a shelf life of 6 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.

COLOURS

IF 10 CE is available to any standard RAL Card upon request.

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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