

Carbolink's Solutions for Industrial Flooring

Clicrete HD



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 Clicrete HD :





CLICRETE HD

Rake and Trowel Grade High Polyurethane Screed

HIGH PERFORMANCE, POLYURETHANE RAKE AND TROWEL RESIN FLOORING SYSTEM, SUPPLIED AS FOUR PARTS IN PRE-MEASURED PACKS FOR EASE OF ON SITE MIXING AND USE. THE CURED SYSTEM FORMS A TOUGH, EASILY CLEANED, PIGMENTED LAYER FROM 4mm UP TO 9mm THICK

FEATURES

- Easily applied by rake and trowel
- Hard wearing - extremely durable and abrasion resistant with low maintenance cost
- Facilitates rapid application
- Resistant to a wide range of chemicals and liquids
- Independently tested - suitable for use in food and drinks production environments
- Seamless - easily cleaned to maintain high standards of hygiene
- Resistant to thermal shock - at 9 mm thick can withstand steam cleaning regimes

STANDARD COLORS

Available to any standard RAL Card upon request

DESCRIPTION

Specialist applied, polyurethane resin floor finish, combining outstanding wearing properties with high chemical resistance and decorative properties. Ideally suited to aggressive areas where a seamless, joint free finish is required and maximum cleanliness is essential. Food processing and storage, abattoir's, drinks production, dairies and general heavy duty plant and traffic areas are just some of the environments that can benefit from this slip resistant system. CLICRETE HD has been formulated to give an easily worked system that can be applied quickly and easily by using a pin rake, only requiring finishing with a trowel to give the required finish.

SURFACE PREPARATION

The concrete or screed substrate 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 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 CLICRETE HD. 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 14 days.

To ensure maximum bond, grooves must be cut into the perimeter of the sub-floor, typically 8 mm deep by 8 mm wide. These should be inset approximately 100mm from and running parallel with the walls and adjacent to doorways and plinths etc., including any finishing edges and day joints. The grooves must have clean, square edges and the product laid into the full depth of the groove forming a perimeter anchorage. Grooves should surround areas not exceeding 20 m².

STEEL PLATES

Steel decking must be clean, sound and properly supported to prevent flexing. Deck plate of less than 4mm thick is not recommended. Surfaces should be shot blasted to SA2.5 and primed using IF N18 Solvent Free Epoxy Primer.

PRIMING

All appropriate substrates to receive CLICRETE HD must first be primed with IF 1 E Solvent Free Epoxy Primer. One or more coats of primer may be required depending upon the condition and porosity of the concrete substrate. The final coat of IF N18 Solvent Free Epoxy Primer must be seeded with Fine Aggregate to provide a mechanical key.

MIXING

The contents of Part A and Part B of CLICRETE HD must first be mixed together for 1 minute, using forced action, in a suitably sized mixing vessel. The contents of Part C and Part D pigment sachet should then be introduced into the mixed resin and mixed together for a further 2 minutes to create one homogeneous mix. One or more packs may be mixed at the same time in order to maintain a quick rate of installation.

APPLICATION

The mixed material should be applied to the prepared and primed surface without delay using a pin rake to achieve the desired thickness and closed with a steel trowel.

NOTE : If a smoother texture is required, as soon as the product has been laid and as work progresses, the surface should be gently rolled with a short piled roller in order to provide an even surface appearance. Do not over roll the surface, as this will reduce the texture of the surface finish. Do not re-roll later.

The work area should be protected during the installation process and during the initial curing time to ensure that no airborne debris can contaminate the surface of the wet resin as this will lead to unwanted blemishes in the hardened, cured surface.

All movement joints in the sub-floor must be carried through the topping and properly sealed. Construction joints and cracks not subject to movement may be overlaid but should the floor move in anyway, these defects will reflect through the system. Isolation joints will need to be allowed for in areas where high thermal movement is anticipated, e.g. around ovens and freezers.

LIMITATIONS

CLICRETE HD should only be applied at temperatures above 5 degree C and where the atmospheric relative humidity (RH) is 90% or below. Floors should have an RH of 75% or less. For floors with an RH of more than 75%, the entire floor area should be treated with CLI DPM Surface Damp Proof Membrane applied and seeded with Fine Aggregate, in accordance with the current product data sheet, in place of IF 1 E Solvent Free Epoxy Primer. The substrate should have a surface tensile strength of at least 1.5 N/mm².

CLICRETE HD and primer / CLI DPM Surface Damp Proof Membrane may be applied to substrates of a lower strength but long term performance may be impaired. 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.

CLEANING

CLICRETE HD 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

CLICRETE HD	@ 27 ± 1°C
Pot life	20 mins
Light traffic	24 hours
Full traffic	48hrs
Full cure	7 days
Bond strength	> 1.5 N/mm ²
Compressive strength	53 N/mm ²
DIN EN ISO 604	
Flexural strength	12 N/mm ²
DIN EN ISO 178	
Tensile strength	7 N/mm ²
DIN EN ISO 527	
Shore D hardness	75
Abrasion resistance	Classified 'Special Duty' under BS 8204:Part 2:2002(9)
Slip resistance	Classified 'Satisfactory' under BS 8204: Part 2: 2002(9), wet and dry
Impact resistance	Classified 'High Impact Resistance' under BS 8204: Part 1: 1999

COVERAGE ESTIMATES

Pack size	Coverage
31.66kg	Approximately 2.3 m ² when applied
Part A 2.32kg	at a thickness of
Part B 2.94kg	@ 5 mm thick
Part C 26kg	
Part D 400g	

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

CLICRETE HD 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

CLICRETE HD is available in six standard colours: green, grey, orange, red, cream and yellow. Other colours may be available to special order, subject to quantity and technical requirements.

CLI polyurethane floor systems are formulated to maximise the mechanical and chemical resistance properties, as a result of this, these types of systems are discoloured by ultraviolet light leading to a “yellowing effect”. This yellowing effect is dependent upon the amount of UV exposure, both in terms of intensity and time, and is more noticeable with lighter colours.

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 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.

CONDITION 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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