

Clicrete HD

Rake and Trowel Grade High
Polyurethane Screed

Pack Size
18.88Kgs

TDS
Technical Data Sheet



Product Overview

Clicrete HD is a specialist-applied, polyurethane resin floor finish that combines outstanding wearing properties with high chemical resistance and decorative properties. Ideally suited for aggressive areas where a seamless, joint-free finish is required and maximum cleanliness is essential.

Key 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 Colours

Available to any standard RAL Card upon request.

Recommended Uses

Food processing and storage, abattoirs, drinks production, dairies, and general heavy-duty plant and traffic areas can benefit from this slip-resistant system.

Application Guidelines

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 a suitable degreaser to remove polish, wax, grease, oil, and similar contaminating substances before mechanical preparation. Contaminated concrete surfaces should be mechanically prepared, either by scabbling, grinding, or contained shot blasting equipment or similar, and be vacuumed clean before 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.

Priming

All appropriate substrates to receive Clicrete HD must first be primed with IF N18 Solvent Free Epoxy Primer. One or more coats of primer may be required depending on 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 to maintain a quick rate of installation.

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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.

Limitations

Clicrete HD should only be applied at temperatures above 5°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 place of IF N18 Solvent Free Epoxy Primer. The substrate should have a surface tensile strength of at least 1.5 N/mm².

Cleaning

Clicrete HD can be removed from tools and equipment by using AC-Thinner immediately after use. Any hardened material will need to be removed mechanically.

Technical Specifications:

Pot Life:	20 mins
Light traffic:	24 hours
Full traffic:	48 hours
Full cure	: 7 days
Bond strength:	>1.5N/mm ²
Compressive strength:	53 N/mm ²
Flexural strength	12 N/mm ²
Tensile strength:	7 N/mm ²
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
Mixing Ratio:	As specified on the container

Coverage Estimates

Approximately 2.3 m² when applied at a thickness of 5 mm. Note: These figures are theoretical; due to 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.

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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.