



Clicrete

Medium Duty Polyurethane Screed

Pack Size

18.88Kgs

TDS

Technical Data Sheet



Product Overview:

Clicrete is a medium duty polyurethane screed, specifically designed for flooring applications in aggressive environments. It combines outstanding wearing properties with high chemical resistance and is ideal for areas requiring a seamless, joint-free finish for maximum cleanliness.

Key Features:

Hard wearing - extremely durable and abrasion resistant with low maintenance costs Resistant to a wide range of chemicals and liquids
Seamless - easily cleaned to maintain high standards of hygiene

Recommended Uses:

Factories General heavy duty plant areas Traffic areas

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 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. 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. 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.

Priming

All appropriate substrates to receive Clicrete must first be primed with IF N18 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 N 18 Solvent Free Epoxy Primer may be seeded with Fine Aggregate to aid application.

Mixing

The contents of Part A and Part B of Clicrete must first be mixed together for 1 minute, using forced action, in a suitably sized mixing Product Data Sheet

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vessel. The contents of Part C, the powder component, 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

For flooring applications, the mixed material should be applied to the prepared and primed surface between 8 and 24 hours after priming, using a trowel to achieve the desired thickness. As soon as the product has been laid and as work progresses, the surface should be gently rolled with a spiked roller in order to provide an even surface appearance. 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 any way, 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.

Physical Properties:

Clicrete @27±1°C

Pot Life:	20 mins
Light traffic:	24 hours
Full traffic:	48 hours
Full cure	: 7 days
Bond strength:	>1.5N/mm ²
Compressive strength:	51 N/mm ² DIN EN ISO 604
Flexural strength	: 18 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

Health and Safety:

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

Storage:

Storage Conditions: Store in a dry place between 5C and 30C. Protect from frost and direct sunlight.

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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.