



IF 18C

Epoxy Coving Render

Pack Size

16.5Kgs

TDS Technical Data Sheet



Description

IF 18C is a specialist-applied epoxy coving system that combines outstanding wearing properties with high chemical resistance and decorative qualities. This system is ideally suited for aggressive environments where maximum cleanliness is essential, such as food processing and storage areas, abattoirs, beverage production facilities, dairies, and heavy-duty plant and traffic areas.

Features

Hard-wearing, extremely durable Good abrasion resistance with low maintenance costs Seamless, easily cleaned to maintain high standards of hygiene Easy to apply

Standard Colours

Available in any standard RAL color upon request.

Substrate Preparation

The substrate must be hard, sound, and free of dust and other barriers, such as paint, lime coatings, plaster, curing agents, laitance, and adhesive residues, that may inhibit adhesion. Vertical surfaces must be rigid enough to resist deflection during the application process. A suitable degreaser should be used to remove polish, wax, grease, oil, and similar contaminants before mechanical preparation. Contaminated substrates should be mechanically prepared through grinding, shot blasting, or similar methods and vacuumed clean prior to applying IF 18C. 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 substrate where differential movement is anticipated (e.g., movement joints) should be brought through to the finished surface and suitably sealed.

Priming

All substrates must first be primed with IF N18 Moisture Insensitive Primer. One or more coats may be required depending on the condition and porosity of the substrate. Ensure that the primer is tacky before commencing the application of IF 18C.

Mixing

The individual components of IF 18C should be thoroughly stirred before being mixed together. Pour the entire contents of Part A and Part B into a larger mixing vessel to incorporate Part C. Mix thoroughly with a spiral mixing paddle in a slow-speed drill until a consistent, homogeneous mix is achieved.

Application

For coving applications, the mixed material should be applied to the prepared and primed tacky surface without delay using a trowel to achieve the desired thickness and coving profile. Note: Do not overwork the surface or mix more than can be used within the working time. The work area should be protected during the installation process and the initial curing time to ensure no airborne debris

contaminates the surface of the wet resin, as this will lead to unwanted blemishes in the hardened, cured surface. All movement joints in the substrate must be carried through the coving render and properly sealed. Construction joints and cracks not subject to movement may be overlaid, but should the substrate move, these defects will reflect through the coving render. Isolation joints will need to be allowed for in areas where high thermal movement is anticipated, such as around ovens and freezers.

Limitations

IF 18C should only be applied at temperatures above 10°C. Substrates should be dry and not affected by rising damp. Concrete or other cementitious substrates should have a surface tensile strength of at least 1.5 N/mm². IF 18C 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 characteristics of the product will change, and any unused product should be discarded at this time.

Cleaning

IF 18C can be removed from tools and equipment using AC Thinner 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

Pot Life:	45 minutes
Light Traffic:	24 hours
Full Traffic	: 48 hours
• Full Cure	: 7 days
• Bond Strength (7 days):	> 1.5 N/mm ²
• Compressive Strength:	70 N/mm ²
• Flexural Strength	: 23 N/mm ²
• Tensile Strength:	11 N/mm ²
• Mixing Ratio:	As specified on the container

Coverage Estimates

Approximately 9.5 running meters at 2"x2" thickness. Note: These figures are theoretical. Due to wastage and the variety and nature of substrates, practical coverage figures may be reduced.

Storage and Shelf Life

IF 18C has a shelf life of 12 months if stored in a dry place between 5°C and 30°C in the original unopened containers. The product should be protected from frost and kept away from direct sunlight and sources of heat.

Colours

IF 18C is available in any standard RAL color upon request.

Pack Size

16.5Kgs



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.