



IF 5 P

Polyurethane Coving and Wall

Render

Pack Size

13.934Kg

TDS Technical Data Sheet



Description

IF 5P is a specialist-applied polyurethane resin system designed for wall and coving finishes. It offers excellent durability, high chemical resistance, and decorative properties. This product is ideal for use in aggressive environments requiring a seamless, joint-free finish where cleanliness is paramount. It is particularly well-suited for food processing and storage areas, abattoirs, beverage production facilities, dairies, and other heavy-duty industrial spaces.

Features

Hard wearing and extremely durable with low maintenance costs Resistant to a wide range of chemicals and liquids Seamless finish that is easily cleaned to maintain high hygiene standards Resistant to thermal shock; withstands steam cleaning when applied at a 9 mm thickness

Standard Colors

Available in any standard RAL colors upon request

Surface Preparation

The substrate must be hard, sound, and free of dust and any materials that might impede adhesion, such as paint, lime coatings, plaster, curing agents, laitance, and adhesive residues. All vertical surfaces must be rigid enough to resist deflection during the application process. Degrease the surface to remove any contaminants like polish, wax, grease, or oil before mechanical preparation. Contaminated substrates should be prepared using grinding or shot blasting equipment and vacuumed clean prior to applying IF 5P. Any joints or cracks in the substrate that may experience differential movement should be carried through to the finished surface.

Priming

All substrates must be primed with IF N18 Primer. Depending on the substrate's condition and porosity, one or more coats may be necessary.

Mixing

First, mix the contents of Part A and Part B of IF 5P for 1 minute using a forced-action mixer in a suitably sized vessel. Then, add Part C and Part D to the mixed resin and continue mixing for an additional 2 minutes until a homogeneous mix is achieved.

Application

Once the tack coat has achieved the required tackiness, apply the mixed material to the prepared and primed substrate immediately using a trowel to achieve the desired thickness and coving profile. Avoid overworking the surface and do not mix more than can be used within the working time. Protect the work area during installation and initial curing to prevent airborne debris from contaminating the wet resin, which could cause blemishes in the cured surface. All movement joints in the substrate must be carried through the wall and coving render and properly sealed. Construction joints and non-movement cracks may be overlaid, but any substrate movement will

cause these defects to reflect through the wall and coving render. Isolation joints should be used in areas where high thermal movement is anticipated, such as around ovens and freezers.

Limitations

IF 5P should only be applied at temperatures above 5°C. Substrates must be dry and free from rising damp. Cementitious substrates should have a surface tensile strength of at least 1.5 N/mm². While IF 5P can be applied to substrates with lower tensile strength, long-term performance may be compromised. Once the mixed material has exceeded its pot life, its viscosity and characteristics will change, and any unused product should be discarded.

Cleaning

IF 5P can be removed from tools and equipment using CLI Eco Sol 205 immediately after use. Any hardened material must be removed mechanically.

Properties

The following values are typical results obtained in laboratory conditions at 27 ± 1°C. Actual on-site performance may vary.

Physical Properties

Pot life:	10 minutes
Light traffic:	24 hours
Full traffic:	48 hours
Full chemical cure	: 7 days
Bond strength:	>1.5 N/mm ²
Compressive strength:	45 N/mm ²
Flexural strength:	11 N/mm ²
Tensile strength:	5 N/mm ²
Mixing ratio:	As specified on the container

Coverage Estimates

Approximately 1.4 m² when applied at a thickness of 5 mm.

Note: These figures are theoretical. Due to waste and the variety and nature of substrates, practical coverage may be reduced.

Storage and Shelf Life

IF 5P has a shelf life of 6 months when stored in a dry location between 5°C and 30°C in its original, unopened containers. The product should be protected from frost, direct sunlight, and heat sources.

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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.