



# IF EU 11 P

Self Smoothing Epoxy Polyurethane  
Floor Topping

Pack Size  
16.5Kgs

TDS  
Technical Data Sheet



## Description

A specialist applied, self-smoothing epoxy polyurethane resin floor topping designed for environments requiring a seamless, joint-free finish with exceptional durability and chemical resistance. This product is ideal for laboratories, clean rooms, and light industrial settings where maintaining cleanliness is crucial.

## Features

Hard-wearing and durable with low maintenance costs Good abrasion resistance, withstands foot and vehicular traffic Resistant to a wide range of chemicals and liquids Seamless and easily cleaned to maintain high standards of hygiene Self-smoothing properties provide a flat high gloss finish Hygienic

## Standard Colors

Available in a wide range of colors as per standard RAL Card upon request.

## Surface Preparation

It is essential that IF EU 11 P is applied to sound, clean, and dry surfaces to ensure maximum adhesion. IF EU 11 P is designed for use as a thin coat application. Thin coatings may reflect the surface texture of the substrates, potentially leading to premature wear. Therefore, appropriate surface preparation is essential. The ideal substrate is a flat, lightly textured, and clean concrete surface.

## Substrate Preparation

The concrete surface should be hard, sound, and free from dust and other barrier materials such as paint, lime coatings, plaster, curing agents, laitance, and adhesive residues that might hinder adhesion. Use a suitable degreaser to remove polish, wax, grease, oil, and similar contaminants before mechanical preparation. Contaminated surfaces should be mechanically prepared using scabbling, grinding, or shot blasting equipment and then vacuumed clean. Overwatered or weak concrete surfaces should be prepared down to sound, solid concrete. Dust and debris should be removed using vacuum equipment. Any joints or cracks in the concrete base where differential movement is expected, such as movement joints, should be brought through to the finished surface. New concrete slabs should cure for at least 14 days.

## Priming

Before applying IF EU 11 P, the substrate must be primed with IF N18 Solvent-Free Epoxy Primer. Depending on the condition and porosity of the substrate, one or more coats of primer may be required. High-porosity substrates may necessitate two coats of primer. Inadequate priming can lead to issues such as blistering or pinholing.

## Mixing

The individual components of IF EU 11 P should be thoroughly stirred before mixing. Pour the contents of Part B into a larger mixing vessel and add Part A. Mix thoroughly using a spiral mixing paddle attached to a slow-speed drill until a consistent, homogeneous

mixture is achieved. If mixing multiple packs simultaneously, ensure quick installation to avoid material waste. Once mixed, the IF EU 11 P will generate heat, reducing the working time if left in the mixing container or kept in bulk.

## Application

Apply the mixed IF EU 11 P material immediately to the prepared and primed surface using a trowel or depth-set rake to achieve the desired thickness. Roll the surface gently with a spiked roller to release entrapped air and smooth out any trowel marks. Protect the work area during installation and initial curing to prevent contamination from debris, dust, or insects.

## Limitations

IF EU 11 P should not be applied to floors with rising moisture or with relative humidity above 75% at the time of application. It is not suitable for temperatures below 10°C or ambient humidity above 85%. If moisture is present, treat the surface with CLI SLP 14 E Surface Damp Proof Membrane before applying IF EU 11 P. Once the material exceeds its pot life, it should be discarded. Avoid steam cleaning or using hot water above 50°C for washing. Products are manufactured under strict quality assurance procedures. For color consistency, wherever possible, use products from the same batch.

## Cleaning

IF EU 11 P can be removed from tools and equipment with AC Thinner immediately after use. Hardened material will need to be removed mechanically.

## Properties

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

## Physical Properties

Pot Life:	20 minutes
Mixed Density	1.33 - 1.43 gm/cc
Initial Hardness:	24 hours
Full Cure:	7 days
Application Thickness:	1 mm >
Shore D Hardness:	> 70
Bond Strength:	1.50 N/mm <sup>2</sup> after 1 day
Compressive Strength:	> 90.0 N/mm <sup>2</sup>
Tensile Strength:	> 24.0 N/mm <sup>2</sup>
Flexural Strength:	> 60.0 N/mm <sup>2</sup>
Mixing Ratio:	As specified on the container

## Coverage Estimates

Approximately 4.5 m<sup>2</sup> per 1 mm thickness.

## Storage and Shelf Life

IF EU 11 P has a shelf life of 12 months if stored properly in a dry, cool place between 5°C and 30°C in its original unopened containers. Protect the product from frost, direct sunlight, and heat sources.

## 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**

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