

Epontflor SL200

Solvent Free Self-Smoothing Epoxy Based Flooring

Description

Solvent free, coloured, self-smoothing epoxy based flooring system for concrete floors. The material can be used for three separate specifications, ranging from,

1. 0.3 – 0.5 mm high build rolled-on coat
2. 1 – 1.5mm self-smoothing floor coating system
3. 2 – 3 mm self-smoothing floor coating system

Benefits

- Low odour during application
- Hard wearing and long lasting
- Seamless and smooth floor
- Good chemical resistance
- Hygienic and impermeable
- Abrasion resistance

Colour Range

Epontflor standard colours

Standard Thickness

Applied thickness at 0.3 – 0.5 mm, 1 – 1.5 mm or 2 – 3 mm

Areas of Use

- Medium duty industrial floors
- Clean room and showrooms
- Electronic industries
- Laboratories and workshops
- Aerospace industry
- Multi-storey car park decks

Physical Properties

Mixing Ratio and Pot Life of Mixture

Product	Part A with colour Paste	Part B	Part C	Pot Life (25°)	Material consumption
0.3 – 0.5 mm Roll on Coat	4	1	-	25 minutes	0.3 – 0.5 kg/m ²
1 – 1.5 mm Self-Smoothing Flooring	4	1	1 (Filler 200)	25 minutes	1.5kg/m ² (1 mm)
2 – 3 mm Self Smoothing Flooring	4	1	4 (Aggregate 200)	25 minutes	3.6 kg/m ² (2 mm)

- Cure Time For:
 - Foot Traffic 24 hours
 - Vehicular Traffic 48 hours
 - Chemical 7 days
- Compressive Strength (ASTM C579:93) 65 N/mm²
- Flexural Strength (ASTM C580)) 16 N/mm²
- Tensile Strength (C780:87) 18 N/mm²
- Abrasion resistance CS-17 (ASTM D4060) 90 mg weight loss after 1000 cycles of abrasion
- Shore D Hardness 76
- Tensile Adhesion (ASTM D4541) >1.5 N/mm² (concrete failure)

Chemical Resistance

Epontflor SL 200 is resistant to a wide range of chemicals commonly used in industrial areas. Resistance to spillages

Citric Acid 5%
Nitric Acid 25%
Lactic Acid 5%
Petrol
Xylene

Tartaric Acid 5%
Hydrochloric Acid 10%
Phosphoric Acid 30%
Sugar Solution
Skydrol

Acetic Acid 5%
Sulphuric Acid 30%
Sodium hydroxide 30%
Formaldehyde Solution 38%

Application Instructions

Products Used in the Systems

Primer:	Epontflor SF Primer	Filler:	Filler 200 (For 1 – 1.5 mm thick)
Topcoat:	Epontflor SL 200	Aggregate:	Aggregate 200 (For 2 – 3 mm thick)

Surface Preparation

- New concrete floors should be cured for a minimum of 28 days and dried to below a moisture content of 4%.
- All surfaces should be mechanically prepared to provide a clean, dry laitance and contaminant free substrate.
- Existing coatings, glues, loose parts etc must be removed.
- Vacuum shot blasting or grinding provides the best results.

Priming

- Apply 1 coat of Epontflor SF Primer at the rate of 0.25 kg/m² and cured for roll on coating specification.
- For self-smoothing flooring, apply 1 coat of Epontflor SF Primer by squeegee or trowel and follow up by back-rolled to ensure the even thickness, broadcast silica sand onto wet primer and the excess and loose silica sand should be removed next day.
- Efficient sealing of the concrete surface is essential to minimize surface defects in the finishing coat.
- After 8 – 48 hours of applying Epontflor SF Primer, apply Epontflor SL200.

Mixing

- Add entire contents of colour paste into Part A container and mix until a homogenous colour is obtained, add part B again for further mixing.
- Use an electric mixer to mix the mixture at a low speed (300 – 400 rpm) until a homogenous solution is obtained.
- For 1 – 1.5 mm self-smoothing floorings add required quantity of Filler 200 until uniform mix is obtained.
- For 2 – 3 mm self-smoothing floorings add required quantity of Aggregate 200 until uniform mix is obtained.

Application

0.3 – 0.5 mm Roll on Coat

- Apply mixed Epontflor SL200 at the rate of 0.3kg/m²/coat onto primed substrate by squeeze or trowel and then back-rolled by roller. Two coats to be applied are recommended.

1 – 1.5mm Self-Smoothing Flooring

- Pour the material of mixture of Epontflor SL200 (Part A + Part B) with Part C Filler 200 onto primed substrate and spread evenly to the required thickness with trowel. Roll immediately in two different directions, perpendicular to another with a spiked roller to release entrapped air.

2 – 3 mm Self-Smoothing Flooring

- Pour the material of mixture of Epontflor SL 200 (Part A + Part B) with Part C Aggregate 200 onto primed substrate and spread evenly to the required thickness with trowel. Roll immediately in two different directions, perpendicular to another with a spiked roller to release entrapped air.

Broadcast Non-Skid Flooring Application

- Apply mixed Epontflor SL200 at the rate of 0.3kg/m²/coat onto primed substrate or coated epoxy based flooring material by squeeze or trowel and then back-rolled by roller.
- Broadcast graded silica sand onto Epontflor SL200 before harden, the excess and loose silica sand should be removed next day.
- Apply 1 more coat mixed Epontflor SL200 again at the rate of 0.3 – 0.4 kg/m²/coat and then back-rolled by roller.

Supply

System	Part A	Part B	Colour Paste	Part C	Pre-Packed Unit
0.3 –0.5 mm Rolled-On Coat	15.4kg	4kg	0.6kg	-	20kg
1 – 1.5mm Self-Smoothing Flooring	15.4kg	4kg	0.6kg	4kg (Filler 200)	24kg
2 – 3 mm Self-Smoothing Flooring	15.4kg	4kg	0.6kg	16kg (Aggregate 200)	36kg

Cleaning

Epont Epoxy Thinner

Shelf Life

When stored all components at cool and dry place. The shelf life is 12 months in the original unopened container.

The information given in this data sheet is based on many years experience and is correct to the best of our knowledge. However, since the use of our products in accordance with the instructions given, and their success in application is dependent on a number of factors, we can only be responsible for the quality of our product at the time of dispatch. Should any doubt arise about specification or application, our Technical Service Team should be contacted immediately. The users therefore should make their own determination in using the product of the data contained herein for any application.