

Epontflor CM20

Three Components Self-Smoothing Epoxy-Cement Based Moisture Barrier

Description

Epontflor CM20 is three components self-smoothing epoxy-cement based cementitious flooring and serves as moisture barrier for damp concrete floors.

Benefits

- Excellent adhesion to damp or dry concrete
- Raising dampness resistance
- Solvent free and easy to apply
- High mechanical strength
- Self-leveling leveler for floor coating system
- Coloured Epontflor CM20 for low aesthetic consideration is available
- Excellent water and oil resistance

Colour Range

Grey

Standard Thickness

Applied thickness for moisture barrier is at 1.5 – 3 mm, and 3 – 9 mm for patching and repair.

Areas of Use

- Leveling or patching damaged concrete surface
- Moisture barrier for epoxy or polyurethane floors
- Refurbishment of old concrete floors

Physical Properties

Mixing Ratio and Pot Life of Mixture

Product	Part A	Part B	Part C	Pot Life (25°)	Material consumption
Epontflor CM20	2.5kg	1kg	15.67kg	20 minutes	2.0kg/m ² for 1mm

- Cure Time For:
 - Foot Traffic 12 hours
 - Vehicular Traffic 48 hours
 - Overcoat with epoxy flooring 24 hours
- Compressive Strength (ASTM C579:93)
 - 50 N/mm² (7 Days)
 - 60 N/mm² (28 days)
- Flexural strength
 - 11 N/mm² (7 days)
 - 14 N/mm² (28 days)
- Tensile Adhesion strength
 - 28 days), >1.5 N/mm² (concrete failure) (both 7 days and
- Modulus of Elasticity
 - 15 GPA
- Fire Rating (BS 476- 7)
 - Class One

Application Instructions

Products Used in the System

Primer : Epont Bonding Primer

Topping

:Epontflor CM20

Surface Preparation

- All surfaces should be mechanically prepared to provide a clean, dry, laitance and contaminant free substrate.
- Existing coatings, glues, lose parts etc must be removed.
- Vacuum shot blasting or grinding for the best results.

Priming

- Apply 1 coat of Epont Bonding Primer at the rate of 0.2 kg/m² by squeeze or trowel and then back-rolled by roller to ensure the evenly thickness before broadcasting silica sand.
- Broadcast silica sand onto the wet primer and the excess and loose silica sand should be removed next day.

Mixing

- Add entire contents of Part A and Part B into a suitable container and mix well until a homogenous solution is obtained.
- Add Part C slowly while stirring at minimum speed of 650 rpm until a lump free slurry is obtained, the mixing time is at approximately 3 minutes.

Application

1.5 – 3.0 mm Thick Leveling and Moisture Barrier Layer

- Pour the mixture onto primed substrate and spread evenly by squeeze or steel trowel to the required thickness.
- Roll immediately with a spiked roller to ensure uniform thickness and release entrapped air.

3 – 9 mm Floor Patching and Repair

- Add additional graded silica sand to the mixture of Part A, B and C, the mixing ratio is 1 part of graded silica sand to 2 parts of liquid mixture by weight.
- Use steel trowel to patch and smooth the floor surface.

Supply

System	Part A	Part B	Part C	Pre-Packed Unit
Epontflor CM20	3.0kg	1.2kg	18.8kg	23kg

Cleaning

Clean water

Shelf Life

When stored all components at above 5°C and dry place. The shelf life is 12 months for Part A and Part B, and 6 months for Part C 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.