

Epoxy Self Smoothing FC



SINDEC
CHEMICALS

SM-3100

Fast Curing, Self Smoothing Epoxy System, Trowelled Applied

Description

SM-3100 is a 3 component, Fast Curing, coloured epoxy resin floor system which when mixed provides a 3 – 6mm thick self smoothing floor with a high gloss, excellent wear resistant finish.

SM-3100 is solvent and phenol free, low odour product. It provides a highly durable, decorative, and low maintenance, in-situ flooring system for hand application to a range of difficult substrates.

Coverage

Coverage varies widely due to the porosity and profile of different substrates.

24kg Kit covers 4m² @ 3mm thickness

* Coverage figures given are theoretical. Practical coverage rates may vary due to wastage factors and the type, condition, profile and porosity of the substrate.

Appearance

Gloss finish in a range of standard colours (see the Sindec Chemicals Colour Chart).

Typical Uses

Used to create decorative, long lasting, hygienic, and protective surfacing of concrete and many other rigid and semi-rigid surfaces including wood and tiles. **SM- 3100** is a suitable floor finish for all types of commercial, industrial, retail and commercial environments where a hard wearing, low maintenance and aesthetically pleasing finish is required

Features & Benefits

- Range of colours
- Low maintenance
- Hard wearing
- Smooth
- Load resistant in 24 hours
- Chemically resistant
- Taint free and fully inert once cured

Mixing

Pour part B into part A, stir and completely blend both components using a low-speed mixer using paddle mixer for a minimum of 3 minutes @ 300-400 rpm. Transfer mixed resin into a clean new bucket and mix for a 1 further minute.

Reapplication

A Second coat is possible as soon as the first one is touch dry and within the following 24 hours.

Product Application

Apply using a steel trowel in one application to the required thickness. After trowelling the laid area it should be over-rolled with a spiked roller to release trapped air. Best results are obtained when the ambient temperature is between 10°C and 25°C. Minimum application temperature 7°C. Clean tools with Sindec Tool Cleaner before the resin has cured.

Environmental Conditions

SM-3100 should not be used or applied at temperatures outside of at range of <10°C to >25°C
*temperature control will be required if below this range.

Otherwise, this will effect the cure period, surface finish and strengths. Surface temperature must be at least 3°C above the dew point. Air temperature should be above 5°C and relative humidity at less than 70%,

Maximum application temperature is 40°C. Best conditions are 15°C to 25°C, these conditions should be maintained during all the curing time. Application should be done with plenty of air ventilation.

Substrate Requirements

The substrate should be sound and of good strength, dry and free from contamination i.e. dust, oil or other coatings. The substrate should be textured mechanically to achieve a good key. It must have a moisture content of less than 4% and have an effective damp proof membrane.

If the surface is very uneven, a levelling scrape coat comprising mixed **EPR-221 (Epoxy Primer)** and fine quartz sand should be applied, when this is done priming is not required.

For normal application after surface preparation, prime using **EPR-221** and broadcast with Quartz sand 0.1-0.3mm into wet resin. Leave 12 to 24 hours before removing excess sand and over-coating.

Requirements as follows:

- Flat and Level (Product is Self Smoothing).
- Compact and Cohesive (Pull off test must show a minimum resistance of 1.4N/mm²).
- Minimum compressive strength of 25N/mm².
- Even and regular surface.
- Free from cracks and fissures. If any, they must be previously repaired (we recommend using Sindec Epoxy Crack Filler).
- Clean and dry, free of dust, loose particles, oils, organic residues or laitance.

Oil & Grease

Isolated contamination should be removed using an appropriate degreaser, rinsed thoroughly, and allowed to completely dry. A coat of **OT-235 (Oil Tolerant Primer)** should then be applied (see separate datasheet)



Epoxy Self Smoothing Flex



SINDEC
CHEMICALS

SM-3100

Fast Curing, Self Smoothing Epoxy System, Trowelled Applied

Suitable Substrates

Thoroughly prepared concrete, polymer modified sand and cement screeds.

Return To Service

Foot traffic allowed in 16-20 hours. Full cure is achieved after 7 days (approximately) Caution: Contact with water when not fully cured may lead to white stains.

General Maintenance

SM-3100 can be easily cleaned using industry standard cleaning chemicals and techniques designed for epoxy resin flooring. Test cleaning agents prior to use in a small area. Do not steam clean or subject to temperatures in excess of 50 °C. Spillages must be removed immediately.

Tool Cleaning

Tools and equipment should be cleaned whilst the resin is still wet using **Sindec Tool Cleaner**

Technical Information

PRODUCT INFO BEFORE APPLICATION

	Component A	Component B
Chemical Description	Epoxy	Polyamine Mixture
Packaging Kits		
24kg kit		
Component A = 5.94 kg		
Component B = 2.5 kg		
Component C = Quartz Flour 15.56 kg		
Physical State	Liquid	Liquid
Non-volatile content (%) approximate	>95%	98%
Resin Colour	A = Pigmented	B = Slightly Amber
Use Before	12 months after manufacturing date	
Pot Life	Temp (°C)	Pot Life (100 g, min)
	20	20 mins

Storage

Keep between 15°C and 30°C. Component A may crystallize if stored for protracted periods under certain conditions. If this occurs, it can be restored to its original conditions by heating it to 70-80°C and stirring it thoroughly.

Shelf Life 12 Months (If unopened)

FINAL PRODUCT INFORMATION

Final State	Solid, Glossy Material
Colour	Pigmented. Available in RAL or BS 4800
Compressive Strength	60N/mm ² AT 28 DAYS (DIN 1164)
Hardness (Shore)	80 Shore D hardness after 7 day > 23°C
UV Resistance	Undergoes slight ambering under sunlight and UV exposure, hardly noticeable in indoor application. No mechanical properties are affected.

Disposal of Containers

Empty containers must be handled with the same precautions as if they were full. Treat empty containers as hazardous waste, and transfer them to an authorized waste manager. If the containers still have some material left, do not mix with other product before considering the risk of potential dangerous reactions.

Technical Advice

For further information on this or any other Sindec product, please contact our office.

Health & Safety

Before using this product, please ensure that you have received and read the product Safety Data Sheet. Refer to hazard labelling on the product. Wear gloves and avoid contact with skin and eyes.

Additional Information

The information contained in this document, and all further technical advice given is based on our present knowledge and experience. However, it implies no liability or legal responsibility on our part. In particular, no warranty or guarantee of product performance in the legal sense is intended or implied as the conditions of use and the competence of any labour involved in the application are beyond our control.

Properties and coverage rates shown are for guidance purposes only. The user of the product must determine the product's suitability for the intended purpose. We reserve the right to make any changes according to technological progress or further developments.

Products are guaranteed against defective materials and manufacture and are sold subject to our standard terms and conditions of sale, copies which can be obtained upon request.

Sindec Chemicals try to ensure that the information it may give is accurate and is correct, it cannot control over where and how its products are used or applied, or accept any liability either directly or indirectly arising from the use of its products. Whether or not in accordance with any advice, recommendation, specification or information given by the Sindec Chemicals.



SINDEC
CHEMICALS