

Epoxy Scratch Coat



SINDEC
CHEMICALS

EP-SC500

100% Solids Pigmented, self-priming Epoxy for smoothing out rough surfaces / Generating a Key

Description

EP-SC500 is a 3-component epoxy scratch coat system with good levelling properties for use on concrete and screeds, for sealing and smoothing out rough surfaces.

EPSC500 is designed to improve the adhesion and levelling of rough concrete substrates.

Coverage

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

Rough, porous concrete: Test area recommended average finish: 300 - 400 g/m² (330 g/m² + -) including sand addition. Sand addition normally around 2 sand to 1 of resin.

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

Features & Benefits

- Good wetting out of substrate
- Good levelling properties
- Improves the adhesion of toppings to the substrate
- Easy to mix and apply

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.

Product Application

Once mixed, transfer the mixed resin into the aggregate and blend thoroughly until completely mixed ensuring no dry spots are present.

This should be applied immediately in a thin continuous film at 300 - 400 g/m². Work the resin into the surface using a squeegee and/or trowel to a flat and smooth finish.

Reapplication

15 - 36 hours * The above cure times are approximate and given as a guide only. These times can vary due to prevailing site conditions. At lower temperatures curing times will be extended. If the over coating interval of 36 hours is extended, the first coat should be abraded to ensure inter coat adhesion.

Environmental Conditions

EP-SC500 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 carried out with plenty of air ventilation.

Substrate Requirements

Inadequate preparation will lead to loss of adhesion and failure. In coatings, there is a tendency for the finish to mirror imperfections in the substrate. Grinding or light self-contained shot blasting is therefore preferred.

If in doubt, apply a test area first.

Requirements as follows:

- Flat and Smooth.
- 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, laitance and contaminants.

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)

Tool Cleaning

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

Return To Service

Foot traffic: Allow 24-48 hours.

Full chemical cure is achieved after 7 days (approximately)
Caution: Contact with water when not fully cured may lead to white stains.



Epoxy Scratch Coat

EP-SC500



SINDEC
CHEMICALS

100% Solids Pigmented, self-priming Epoxy for smoothing out rough surfaces / Generating a Key

Technical Information

PRODUCT INFO BEFORE APPLICATION

	Component A	Component B
Chemical Description	Epoxy	Polyamine Mixture
Physical State	Liquid	Liquid
Packaging Kits		
5kg kit - Components A & B 10kg kit - Components A & B Component C is Aggregate Sand. @ 2:1 Sand to to Resin		
Non-volatile content (%) approximate	>95%	98%
Colour	Colourless	Colourless
Mixing Ratio	A = 100 by weight	B = 50 by weight
Mixture Properties	1·10 g/cm ³ at 23°C 1000 mPa.s at 23°C	
Use Before	12 months after manufacturing date	
Pot Life	Temp (°C)	Pot Life (100 g, min)
	20	25 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 Membrane, Glossy Material
Colour	Clear, buff when sand is added
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.
Chemical Resistance	Contact Sindec Chemicals for information

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