

PRODUCT DATA SHEET

SikaTop® Armatec®-110 EpoCem®

Reinforcement corrosion protection and bonding primer

DESCRIPTION

SikaTop® Armatec®-110 EpoCem® is a cementitious epoxy resin compensated 3-component coating material with corrosion inhibitor, used as bonding primer and reinforcement corrosion protection.

USES

- Suitable in concrete repair as corrosion protection for reinforcement.
- Suitable as bonding primer for the force-fit adhesion of concrete with tightly meshed reinforcement
- Suitable as a bonding primer on concrete according to DIN 1045

FEATURES

- Contains EpoCem® technology - improved bonding agent
- Excellent adhesion to concrete and steel
- Contains corrosion inhibitor
- Certified for application under dynamic load conditions
- Good resistance to water and chloride penetration
- High shear strength
- Long pot life
- Can be brushed on or applied using spray gun

CERTIFICATES AND TEST REPORTS

- Testing of chloride diffusion
- Determination of the shear-compression behaviour as bonding primer between existing concrete and green concrete

PRODUCT INFORMATION

Composition	Portland cement, epoxy resin, selected aggregates and additives	
Packaging	20 kg: A (1.14 kg) + B (2.86 kg) + C (16 kg)	
Appearance and colour	Mixed components dark grey	
	component A	white liquid
	component B	colourless liquid
	component C	dark grey powder
Shelf life	12 months	
Storage conditions	Store properly in undamaged original sealed packaging, in dry cool conditions between +5 °C and +25 °C.	
Density	A+B+C density: ~2.0 kg/l at 23 °C	
Maximum grain size	0.1 mm	

TECHNICAL INFORMATION

Tensile adhesion strength	≥ 1.5 N/mm² (MPa) (after 28 days)	(EN 1542)
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APPLICATION INFORMATION

Consumption	As reinforcement corrosion protection coating: ~ 2 kg per m² and application layer (~1 mm thick) In total minimum 2 layer thickness (~2 mm thick) As a bonding primer, substrate: ~ 2 kg per m² /mm dependent on substrate conditions						
Ambient air temperature	+5 °C minimum / +30 °C maximum						
Substrate temperature	+5 °C minimum / +30 °C maximum						
Pot Life	~ 3 hours (at +20 °C)						
Waiting time to overcoating	As reinforcement corrosion protection coating: Minimum waiting time between 1st and 2nd working step:						
	+10 °C		+20 °C		+30 °C		
	5 hours		4 hours		3 hours		
	Between 2nd working step and further coatings:						
	+10 °C		+20 °C		+30 °C		
	12 hours		10 hours		8 hours		
	Between 2nd coat and repair concrete:						
	+10 °C		+20 °C		+30 °C		
	24 Stunden		24 Stunden		24 Stunden		
	As a bonding primer: Maximum waiting time before applying repair mortar						
+5 °C		+10 °C		+20 °C		+30 °C	
6 hours		5 hours		2 hours		1 hour	

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

GISCODE: ZP 1
User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.



APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Concrete:

The concrete shall be free from dust, loose material, surface contamination and materials which reduce bond or prevent suction or wetting by repair materials. Delaminated, weak, damaged and deteriorated concrete and where necessary sound concrete shall be removed by suitable means.

Steel reinforcement:

Rust, scale, mortar, concrete, dust and other loose and deleterious material which reduces bond or contributes to corrosion shall be removed and reinforcement cleaned to Sa 2 1/2. Surfaces shall be prepared using abrasive blast cleaning techniques or high pressure water-blasting.

MIXING

SikaTop® Armatec®-110 EpoCem® can be mixed with a low speed (250-350 rpm) electric drill mixer. Shake components A and B thoroughly before opening. Pour liquid components A and B into a suitable mixing vessel and mix for 30 seconds. While still mixing components A and B slowly add powder component C. Mix the three components together for a minimum 3 minutes, minimising addition of air.

APPLICATION

As reinforcement corrosion protection:

Using a suitably clean brush or spraying equipment apply a first layer to cover the reinforcement bars approximately 1 mm thick. When first coat is hard to the finger nail apply second layer approximately 1 mm thick.

As a bonding primer:

Apply using medium hard brush or spray gun to prepared substrate. To achieve good bond, SikaTop® Armatec®-110 EpoCem® must be applied well into the substrate, filling all pores.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened material can only be mechanically removed.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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