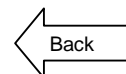


Technical Data Sheet
 Edition 2, 2005
 Identification no.
 02 03 02 01 001 0 000001
 Version no. 0010
SikaTop®-Armatec 110 EpoCem

SikaTop® -Armatec 110 EpoCem

Bonding Slurry and Anti-Corrosive Coating

Description	A cement based epoxy-modified three-component anti-corrosion coating and bonding slurry
Uses	<p>As an anti-corrosion coating for reinforcement steel :</p> <ul style="list-style-type: none"> ■ For repairs to reinforced concrete where there is corrosion of the underlying reinforcement steel. ■ For the preventive protection of reinforcement steel in thin reinforced concrete sections. <p>As a bonding slurry for use on concrete, mortar or steel :</p> <ul style="list-style-type: none"> ■ For repairs to concrete using SikaTop patching and repair mortars ■ For bonding new concrete to old
Advantages	<ul style="list-style-type: none"> ■ Excellent adhesion to steel and concrete ■ Acts as an effective barrier against penetration of water and chlorides ■ Contains corrosion inhibitors ■ Provides an excellent bonding coat for subsequent application of repair mortars (cement and epoxy-based). ■ Not affected by moisture. ■ High degree of mechanical strength. ■ May be spray-applied. ■ Non-flammable. ■ Pre-measured, ready to use packs ■ Solvent free
Coverage	<p>As a bonding slurry, depending on substrate conditions, not less than 1.5 – 2.0 kg/m².</p> <p>As an anti-corrosion coating, depending on method of application, 2.0 kg/m² for 2 coats.</p>
Instruction for Use	
Surface Preparation	<p>Concrete, mortar, stone: the substrate must be clean and sound and free from all traces of loose material, cement laitance, grease and oil.</p> <p>Steel : surfaces must be clean and free from all of grease and oil, rust and mill scale.</p>
Mixing	Shake Components A and B vigorously before opening. Pour both liquids into a suitable mixing pan and mix for 30 seconds. Add Component C slowly while continuing to stir the mixture. Mix mechanically for 3 minutes, using a slow-speed electric stirrer (250 rpm) in order to entrain as little air as possible. Leave to stand for 5 – 10 minutes, until the mixture exhibits a brushable, low dripping consistency



[Table of Contents](#)

Application	<p>As an anti-corrosion coating :</p> <p>Apply a coating approximately 0.5 – 1.0 mm thick to the cleaned and derusted reinforcement steel, by brush or spray gun. Leave to dry for 2 – 3 hours (at 20°C), then apply a second coat of similar thickness. Leave to dry for a similar period of time before applying patching mortar. In the course of application, some of the coating material will inevitably be deposited on the surrounding concrete, but this has no detrimental effect on the finished repair.</p> <p>As a bonding slurry for repair mortar or concrete :</p> <p>Wet down the prepared substrate until the concrete is saturated surface dry condition, then apply a bonding coat not less than 0.5 mm thick, by brush, roller or suitable spray gun. For best results, work the bonding slurry well into the substrate to ensure complete coverage of all surface irregularities. Apply the freshly mixed patching mortar or concrete wet on wet over the bonding slurry.</p>
Maximum Waiting Time	Between application of slurry coat and application of patching mortar or concrete : +30°C 15 minutes
Limitations	<p>Minimum application temperature (ambient and substrate) : +10°C</p> <p>Maximum substrate temperature : +30°C</p> <p>The recommended dosage should be strictly adhered to.</p> <p>On no account should water be added to the mix.</p>
Cleaning	Use water to remove uncured material from tools and mixing equipment. Once cured, SikaTop-Armatec 110 EpoCem can only be removed mechanically
Technical Data	
Colour	When mixed : Grey
Mix Ratio	Comp. A:B: C = 1.14 : 2.86 : 16 (by weight) Comp. A :B:C = 1.14 : 2.86 : 10 (by volume)
Mix Density	Approx. 2.00 kg /l
Pot Life (30°C)	3 – 4 hours
Bond Strength	On concrete (sandblasted) : ≥ 1.5 N/mm ² (concrete failure) On steel: ≥ 1.0 N/mm ²
Index of Resistance to Diffusion of Water Vapour (µH₂O)	~ 700
Index of Resistance to Diffusion of carbon Dioxide (µCO₂)	~ 40,000
Storage	Store in dry, cool and shaded place
Shelf Life	1 year if stored properly in unopened original container
Packaging	20 kg set
Handling Precautions	<ul style="list-style-type: none"> ■ Avoid contact with skin and eyes ■ Wear protective gloves and eye protection during work ■ If skin contact occurs, wash skin thoroughly ■ If in eyes, hold eyes open, flood with warm water and seek medical attention without delay

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 product 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.



PT. Sika Indonesia
 Jl. Raya Cibinong- Bekasi km. 20
 Limusunggal- Cileungsi
 BOGOR 16820 - Indonesia
 Tel. +62 21 8230025
 Fax +62 21 8230026
 Website : www.sika.co.id
 e-mail: sikacare@id.sika.com

Branches
Surabaya :
 Puri Niaga Blok G No. 29, Jl. Raya Rungkut Menanggal 11, Surabaya
 Tel : 031-8690202 ; Fax : 031-8682123
Medan :
 Jl. Pancing / Jl. Willem Iskandar No.75 & 75 A, Kec. Medan Tembung
 Tel : 061- 6619500; Fax : (061) 6619400
Batam :
 Jl. Laksamana Bintan, Komp. Bumi Riau Makmur Blok E No.3, Sungai Panas
 Tel : (0778) 424928; Fax : (0778) 450189

