

# SikaTop<sup>®</sup>-110 EpoCem

## Bonding agent and anti-corrosive coating

Construction

<b>Description</b>	A cement-based epoxy-modified 3 component anti-corrosion coating and bonding agent.
<b>Uses</b>	<p>As an anti-corrosion coating for reinforcement steel:</p> <ul style="list-style-type: none"> <li>• For repairs to reinforcement concrete where there is corrosion of the underlying reinforcement steel.</li> <li>• For the preventive protection of reinforcement steel in thin reinforced concrete section</li> </ul> <p>As a bonding agent for use on concrete, mortar or steel:</p> <ul style="list-style-type: none"> <li>• For repairs to concrete using SikaTop patching and repair mortars.</li> <li>• For bonding new concrete to old.</li> </ul>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>• Excellent adhesion to steel and concrete.</li> <li>• Acts as an effective barrier against penetration of water and chlorides.</li> <li>• Contains corrosion inhibitors.</li> <li>• Provides an excellent bonding coat for subsequent application of repair mortars (cement and epoxy based).</li> <li>• Not effected by moisture.</li> <li>• High degree of mechanical strength.</li> <li>• Pre-measured, ready-to-use packs.</li> <li>• May be sprayed applied.</li> <li>• Non-flammable.</li> <li>• Solvent free.</li> </ul>
<b>Storage and Shelf life</b>	Stored in the original sealed packaging in dry conditions, this product will keep for at least twelve (12) months.
<b>Instructions for Use</b>	
<b>Surface Preparation</b>	<p>Concrete, mortar, stone: the substrate must be clean and sound and free from all traces of loose material, laitance, grease and oil.</p> <p>Steel: surfaces must be clean and free from all traces of grease and oil, rust and mill scale.</p>
<b>Mixing</b>	Shake components A and B vigorously before opening. Pour both liquids into a suitable mixing vessel 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 (250rpm) in order to entrain as little air as possible. Leave to stand for 5-10 minutes until the mixture exhibits a brushable, slow-dripping consistency.
<b>Application</b>	<p>When used as an anti-corrosion coating:</p> <ul style="list-style-type: none"> <li>• Apply a coating approximately 0.5-1.0mm thick to the cleaned and de-rusted reinforcement steel, using a stiff paintbrush, roller or spray gun.</li> <li>• Leave to dry for 2-3 hours (at an ambient temperature of 20°C), then apply a second coat of similar thickness.</li> <li>• Leave to dry for a similar period of time before applying patching mortar or repair. 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.</li> </ul> <p>When using as a bonding agent for repair mortar or concrete:</p> <ul style="list-style-type: none"> <li>• Wet down the prepared substrate until the concrete is in saturated surface dry condition then apply a bonding coat less than 0.5mm thick using a paintbrush, 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.</li> </ul>

<b>Application (cont)</b>	Maximum waiting times between application of slurry coat and application of patching mortar or concrete: +30°C 15 minutes +20°C 20 minutes +10°C 30 minutes Longer waiting times can increase risk of contamination of the bonding coat, which can lead to reduced bond of following coats.
---------------------------	---

<b>Cleaning</b>	Use water to remove uncured material from tools and mixing equipment. Once cured, SikaTop-110 EpoCem can only be removed mechanically.
-----------------	--

### Technical and Physical Data

<b>Form</b>	When mixed: Grey slurry A: White Liquid      B: Yellowish liquid      C: Light grey powder
-------------	---

<b>Density</b>	Component A+B+C: 2.0 kg/litre (uncompacted density of slurry when mixed) A: 1.25 kg/litre      B: 1.03 kg/litre      C: 1.10 kg/litre (dry bulk density)
----------------	---

<b>Bond Strength</b>	On concrete (sandblasted) 2-3 MPa approx.
----------------------	---

<b>Mix ratio</b>	Part by weight: 1 part Component A:2.4 parts component B: 13.7 Component C
------------------	---

<b>Potlife (8kg mix)</b>	90-180 minutes (within the temperature range +5°C to +30°C)
--------------------------	---

<b>Consumption</b>	Depending on the unevenness of the concrete substrate, not less than 1.2kg per m <sup>2</sup> when used as a bonding agent. As an anti-corrosion coating, 3-4 kg per m <sup>2</sup> , depending on the method of application (2 coats).
--------------------	---

<b>Packaging</b>	8 kg kit.
------------------	-----------

<b>Important Note</b>	<ul style="list-style-type: none"> <li>• Minimum application temperature (ambient air and substrate) +5°C</li> <li>• Maximum substrate temperature +30°C</li> <li>• The recommended mix ratios should be strictly adhered to. On no account should water be added to the mix.</li> <li>• Apply only to clean, sound substrates.</li> </ul>
-----------------------	--

<b>Handling Precautions</b>	<ul style="list-style-type: none"> <li>• Avoid contact with eyes and skin.</li> <li>• Wear protective gloves and eye protection during work.</li> <li>• If skin contact occurs, wash skin thoroughly.</li> <li>• If in eyes, hold eyes open, flood with warm water and seek medical attention immediately.</li> <li>• A full Material Safety Data Sheet is available from Sika on request.</li> </ul>
-----------------------------	---

<b>Important Notification</b>	The information, and, in particular, the recommendations relating to the application and end-use of Sika's 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 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 proprietary rights of third parties must be observed. All orders are accepted subject of our terms and conditions of sale. Users should always refer to the most recent issue of the Australian version of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.
-------------------------------	--

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.

# Construction

