



**PRODUCT DATA SHEET**

Edition 12.2017/v1  
CSC Master Format™ 03 01 30.61  
RESURFACING OF CAST-IN-PLACE CONCRETE

# SikaTop®-121 PLUS

## POLYMER-MODIFIED, THIN-COAT MORTAR/BINDER, PLUS MIGRATING CORROSION INHIBITOR

<b>Description</b>	SikaTop®-121 PLUS is a polymer-modified, with migrating corrosion inhibitor added, cementitious, two-component, fast-setting, trowel- or rub-applied, thin-coat mortar for concrete repairs, for skin coats, filling bugholes, honeycombing and for feather edging.
<b>Where to Use</b>	<ul style="list-style-type: none"> <li>▪ Use on grade, above, and below grade on concrete and mortar.</li> <li>▪ Use on horizontal, vertical and overhead surfaces.</li> <li>▪ Block filler and skin coats.</li> <li>▪ Repair for gouges, broken edges, bugholes, pores, honeycombing.</li> <li>▪ Adhesive for insulation materials, lightweight concrete, foam insulation board.</li> </ul>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>▪ Superior abrasion resistance over conventional cement mortar.</li> <li>▪ High bond strength assures superior adhesion.</li> <li>▪ Compatible with thermal coefficient of expansion of concrete.</li> <li>▪ Easily applied to clean, sound substrates. May be featheredged.</li> <li>▪ Good freeze/thaw resistance.</li> <li>▪ Increased resistance to de-icing salts.</li> <li>▪ Formulated with inert, non-reactive aggregates to eliminate potential Alkali-Aggregate Reactivity (AAR).</li> <li>▪ Not a vapour barrier.</li> <li>▪ Not flammable.</li> <li>▪ Ministry of Transport Québec (MTQ) acceptance.</li> <li>▪ Product qualified by The Road Authority (TRA).</li> <li>▪ Product recognized by the British Columbia Ministry of Transportation (BC MoT).</li> <li>▪ Meets the requirements of CFIA and USDA for use in food plants.</li> </ul>

<b>Technical Data</b>	
<b>Packaging</b>	25 kg (55 lb) unit
<b>Colour</b>	Concrete Grey when mixed
<b>Yield</b>	Approx. 11.5 L (0.4 ft³)
<b>Shelf Life</b>	12 months in original, unopened packaging. Store dry at temperatures between 5 and 32 °C (41 and 89 °F). For best results, condition product at temperatures between 15 and 24 °C (59 and 75 °F) before using. Protect Component A from freezing. If frozen, discard.
<b>Mix Ratio (by weight)</b>	A:B = 1:6 depending on consistency required
<b>Application Time [23 °C (73 °F)]</b>	Approx. 15 min after mixing the mortar
<b>Finishing Time</b>	Approx. 20 - 60 min after placing the mortar
<b>Properties at 23 °C (73 °F) and 50 % R.H.</b>	
<b>Bond Strength CAN A23.2-6B</b>	
28 days	Greater than concrete
<b>Compressive Strength ASTM C109</b>	
24 hours	~ 9 MPa (1305 psi)
28 days	~ 35 MPa (5076 psi)
<b>Modulus of Elasticity ASTM C469</b>	
28 days	~ 25 GPa (3.6 x 10 <sup>6</sup> psi)
<b>VOC Content</b>	< 0.5 g/L
<b>Chemical Resistance</b>	Contact Sika Canada

*Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.*

**HOW TO USE**

**Surface Preparation** Remove all deteriorated concrete, dirt, oil, grease, other bond inhibiting materials from surface. Be sure patch area is no more than 4 mm (3/16 in) maximum depth. Preparation work should be done by sandblasting, very high pressure water blasting, or other appropriate mechanical means. Surface should be open pore and textured (CSP 4 - 5 as per ICRI). Pre-saturate surface to be repaired with clean water. Substrate should be saturated surface dry prior to application (SSD).

<b>Mixing</b>	Mix mechanically using a heavy duty, low-speed drill (300 - 450 rpm) with a mixing paddle (ex.: <i>Mud Mixer</i> Type). Shake Component A before using, then pour approx. 85% of Component A into mixing container. Add Component B while continuing to mix. Mix to a uniform consistency for a maximum of three (3) minutes. Add additional Component A to mix if a wetter consistency is required. Should you need smaller quantities, be sure that components are dosed in correct ratio and thoroughly premix Component B before dosing. Ratio is A:B = 1:6 by weight approx.
<b>Application</b>	At time of application, surfaces should be damp (saturated surface dry) with no glistening water. Mortar must be scrubbed into substrate filling all pores and voids. Alternatively, SikaTop® Armatec-110 EpoCem® can be used as a bonding agent. Apply mortar before bond coat dries, then screed. Force product against edge of repair, working toward center. Allow mortar to reach initial set [20 to 60 minutes after placing at 23 °C (73 °F)], then finish with wood or sponge float for a smooth surface. For extra smooth finish, wipe steel trowel with A component during finishing. If repair requires several lifts, each lift must be applied as soon as the previous lift will support it and all surfaces but the last must be left rough. Unfinished work from previous day must be roughened and any polymer film removed to ensure bond.
<b>Curing</b>	As per ACI 308 recommendations for cement concrete, curing is required. To achieve performance consistent with Technical Data, curing must be provided by recognized curing methods, such as wet burlap covered with white polyethylene film or approved water-based curing compound, such as Sika® Florseal WB-18 & -25. Alternatively, the use of Sika® Ultracure DOT™ or NCF™ wet curing blankets is strongly recommended. Curing must commence immediately after placing and finishing. Moist-curing must be maintained for the first 24 hours only. Protect freshly applied mortar from direct sunlight, wind, rain and frost.
<b>Clean Up</b>	Clean all tools and equipment after use with water. Once hardened, the product can only be removed manually or mechanically. Wash soiled hands and skin thoroughly in hot soapy water or use Sika® Hand Cleaner towels.
<b>Limitations</b>	<ul style="list-style-type: none"> <li>▪ Maximum application thickness: 4 mm (3/16 in).</li> <li>▪ Minimum ambient and surface temperatures 7 °C (44 °F) and rising at time of application.</li> </ul>
<b>Health and Safety Information</b>	For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

KEEP OUT OF REACH OF CHILDREN  
FOR INDUSTRIAL USE ONLY

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, within their shelflife. 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: [www.sika.ca](http://www.sika.ca)

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