



## PRODUCT DATA SHEET

# SikaEmaco®-1060 EX

(formerly MEmaco T 1060EX)

LOW-DUST, VERY RAPID-SETTING CEMENT-BASED PRE-EXTENDED CONCRETE REPAIR MORTAR

### PRODUCT DESCRIPTION

SikaEmaco®-1060 EX is a one-component, shrinkage-compensated, very rapid-setting, cement-based pre-extended mortar. It is designed for repairing horizontal concrete surfaces where high early strength gain is required in applications from 1.5" (38 mm) to full depth.

### USES

- Interior and exterior
- Horizontal surfaces
- Applications requiring high early strength gain
- Structural concrete repairs
- Partial and full-depth repairs

#### Substrates

- Concrete

### CHARACTERISTICS / ADVANTAGES

- Pre-extension with coarse aggregate at the factory ensures quality and saves contractor labor
- Low-dusting for added worker comfort and safety
- Extra low permeability helps minimize chloride intrusion
- Very rapid setting so that structures can be opened to vehicular traffic in 1 hour
- Low residual moisture, can be coated in as little as 4 hours
- Excellent freeze/thaw cycling
- Shrinkage-compensated, to minimize cracking from drying shrinkage, which reduces stress at the bond line
- Proprietary cement blend bonds to carbonated and noncarbonated concrete substrates

### PRODUCT INFORMATION

<b>Chemical Base</b>	SikaEmaco®-1060 EX is a blend of cement, graded aggregate, shrinkage-compensating agents, and set-control additives.
<b>Packaging</b>	50 lb (22.6 kg) polyethylene-lined bags
<b>Shelf Life</b>	1 year when properly stored
<b>Storage Conditions</b>	Store in unopened containers in cool, clean, dry conditions.

### TECHNICAL INFORMATION

<b>Compressive Strength</b>	<b>2" Cubes</b>	
	1 hr: 2,000psi (14MPa)	(ASTM C 109)
	1 day: 4,000psi (28MPa)	
	28 days: 8,000psi (55MPa)	

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	<b>3 by 6" cylinders</b> 28 days: 7,400psi (51MPa)	(ASTM C 39)
<b>Modulus of Elasticity in Compression</b>	6.07 x 10 <sup>6</sup> psi	(ASTM C 469)
<b>Flexural Strength</b>	1 day: 715psi (5MPa) 28 days: 1,060psi (7MPa)	(ASTM C 348)
<b>Splitting tensile strength</b>	1 day: 485psi (3MPa) 28 days: 555psi (4MPa)	(ASTM C 496)
<b>Shear Strength</b>	<b>Slant shear bond strength</b> 1 day: 2,500psi (17MPa) 28 days: 2,900psi (20MPa)	(ASTM C 882, modified) No bonding agent was used; mortar scrubbed into the substrate
<b>Shrinkage</b>	Drying Shrinkage -0.04% (-400µstrain)	(ASTM C 928)
<b>Expansion</b>	Wetting expansion +0.02% (+200µstrain)	(ASTM C 928)
<b>Coefficient of Thermal Expansion</b>	7.3 x 10 <sup>-6</sup> in/in/°F (13.4 x 10 <sup>-6</sup> cm/cm/°C)	(CRD C 39)
<b>Rapid Chloride Permeability</b>	362 Coulombs	(ASTM C 1202)
<b>Freeze-Thaw Stability</b>	92.6% RDM at 300 cycles	(ASTM A 666, (Procedure A))
<b>Freeze Thaw De-icing Salt Resistance</b>	<b>Scaling resistance</b> 0 rating (no scaling) at 25 cycles	(ASTM C 672)
<b>Design Considerations</b>	<b>Dust reduction</b> SikaEmaco <sup>®</sup> -1060 EX vs control: 70%	(DIN 55992-2)

**APPLICATION INFORMATION**

<b>Fresh mortar density</b>	148lb/ft <sup>3</sup> (2,370kg/m <sup>3</sup> )	(ASTM C 138)
<b>Coverage</b>	0.38 ft <sup>3</sup> (0.010 m <sup>3</sup> ) per 50 lb (22.6 kg) bag	
<b>Flowability</b>	Slump 3-5in (8-13cm)	
<b>Ambient Air Temperature</b>	Application temperature range 40-85°F (4-29°C)	
<b>Thinner</b>	Working time 8 min	
<b>Set Time</b>	16 min at 72°F (22°C)	(ASTM C 191)
<b>Final set time</b>	28 min at 72°F (22°C)	(ASTM C 191)

**BASIS OF PRODUCT DATA**

Results may differ based upon statistical variations depending upon mixing methods and equipment,

temperature, application methods, test methods, actual site conditions and curing conditions.

**ENVIRONMENTAL, HEALTH AND SAFETY**

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For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## APPLICATION INSTRUCTIONS

### NOTES ON INSTALLATION

- Minimum ambient, surface, and material temperature is 40 °F (4 °C) and rising.
- Do not mix for longer than 5 minutes.
- Minimum application thickness is 1.5" (38 mm).
- Consult coating supplier for overcoating requirements.
- Do not mix partial bags.
- Do not add plasticizers, accelerators, retarders, or other additives.
- For professional use only; not for sale to or use by the general public.
- Make certain the most current versions of the product data sheet and SDS are being used.
- Proper application is the responsibility of the user. Field visits by Sika personnel are for the purpose of making technical recommendations only and are not for supervising or providing quality control on the jobsite

### SURFACE PREPARATION

#### Concrete

1. Concrete must be structurally sound and fully cured (28 days).
2. Saw cut the perimeter of the area being repaired into a square with a minimum depth of 1/2" (13 mm).
3. Refer to current ICRI Guideline no. 310.2R for surface prep requirements to permit proper bond.

#### Reinforcing steel

1. Remove all oxidation and scale from the exposed reinforcing steel in accordance with ICRI Technical Guideline No. 310.1R.
2. For additional protection from future corrosion, coat the prepared reinforcing steel with Sikagard® P 8100 AP.

### MIXING

1. Precondition material to 70 °F ±5° (21 °C ±3°) before mixing.
2. Add 3.25 pints (1.5 L) of potable water to the mixing container for each bag of SikaEmaco®-1060 EX. Add the powder to the water while continuously mixing with a slow-speed drill and paddle, mortar mixer, or other forced action mixer.
3. Mix for a minimum of 3 minutes until fully homogeneous.

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## APPLICATION

1. After removing all standing water, thoroughly scrub a thin layer of bond coat into the saturated surface with a stiff-bristled broom or brush. Do not dilute the bond coat with water. Do not apply more of this bond coat than can be covered with mortar before the bond coat dries. Do not retemper the bond coat.
2. Immediately place the repair mortar from one side of the prepared area to the other. Work the material firmly into the bottom and sides of the patch to ensure a good bond. Level the SikaEmaco®-1060 EX and screed it to the elevation of the existing concrete. Apply the appropriate finish.
3. Finish the completed repair, as required, taking care not to overwork the surface.
4. The recommended application range of SikaEmaco®-1060 EX is from 40 to 85 °F(4 to 29 °C). Follow ACI 305 and 306 for hot or cold weather.

### CURING TREATMENT

Cure with an approved curing compound compliant with ASTM C 309 or preferably ASTM C 1315. Alternative curing options include the application of a fine mist of water, wet burlap, or polyethylene sheeting for a minimum of 2 days.

### CLEANING OF TOOLS

Clean tools and equipment with clean water immediately after use. Cured material must be removed mechanically.

## LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole



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