



## PRODUCT DATA SHEET

# SikaQuick<sup>®</sup>-800

### Rapid Setting Repair Mortar

#### PRODUCT DESCRIPTION

SikaQuick<sup>®</sup>-800 is one-part, rapid hardening, early strength gain, cementitious, patching mortar for concrete.

#### USES

- On grade, above grade and below grade concrete conditions
- Highway overlays and repairs
- Structural repair material for concrete roadways, parking structures, bridges, dams, ramps, runways, warehouse floor & loading docks
- Full depth patching repairs up to 8" deep (> 8" may require multiple lifts)

#### PRODUCT INFORMATION

<b>Packaging</b>	50 lb (22.7 kg) pail
<b>Appearance / Color</b>	Gray powder
<b>Shelf Life</b>	12 months from date of manufacture if stored properly in original, unopened and undamaged, sealed packaging
<b>Storage Conditions</b>	Store dry at 40° - 95° F (4° - 35° C) Protect from moisture. If damp, discard material.

#### CHARACTERISTICS / ADVANTAGES

- Rapid hardening as defined by ASTM C 928
- Epoxy coatings can be applied as early as 6 hours at 73° F (23° C)
- Freeze / thaw resistant
- Easy to mix and apply - labor-saving
- Not gypsum-based
- High early strength
- Fast setting
- Open to foot traffic in 2 hours / Open to vehicular traffic in 3 hours at 73°F (23° C)

#### APPROVALS / STANDARDS

- Meets ASTM C 928, Type R3

## TECHNICAL INFORMATION

<b>Compressive Strength</b>	<b>Age</b>	<b>73° F ( 23° C)</b>	( ASTM C 109) 50 % R.H.
	3 hrs.	3,500 psi (24.1 MPa)	
	1 day	6,000 psi (41.4 MPa)	
	7 day	7,000 psi (48.3 MPa)	
	28 day	8,500 psi (58.6 MPa)	

<b>Splitting Tensile Strength</b>	28 days	500 psi (3.4 MPa)	(ASTM C 496) 73° F (23° C) 50% R.H.
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<b>Shrinkage</b>	28 day	≤ 0.06% Air Cure ≤ 0.03% Water Cure	(ASTM C 157 mod. per ASTM C 928) 73° F (23° C) 50% R.H.
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## APPLICATION INFORMATION

<b>Mixing Ratio</b>	6 - 6.5 pints (2.8 - 3.1 L )
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<b>Coverage</b>	0.43 ft <sup>3</sup> (0.012 m <sup>3</sup> ) (Yield figures do not include allowance for surface profile, porosity or material waste)
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<b>Layer Thickness</b>	<b>Minimum*</b>	<b>Maximum (per lift)</b>
	Neat	1/2" 8"*

- Do not feather edge

\* Minimum thickness is 1/2" (12.7 mm) with the use of SikaQuick® Winter Boost

<b>Product Temperature</b>	65° - 75° F (7° C)
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<b>Ambient Air Temperature</b>	> 45° F (7° C) 20° - 45° F (-7° - 7° C) with the use of SikaQuick® Winter Boost
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<b>Substrate Temperature</b>	> 45° F (7° C) 20° - 45° F (-7° - 7° C) on a frost-free surface with the use of SikaQuick® Winter Boost
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<b>Set Time</b>	20 -40 minutes	(ASTM C 266) 73° F (23° C) 50% R.H.
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<b>Final Set Time</b>	35 - 50 minutes	(ASTM C 266) 73° F (23° C) 50% R.H.
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<b>Application Time</b>	Approximately 15 minutes Product temperature will affect the Application Time: <ul style="list-style-type: none"><li>▪ Above 73° F (23° C) will reduce the Application Time and workability</li><li>▪ Below 73° F (23° C) will extend the Application Time and workability</li></ul>
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# APPLICATION INSTRUCTIONS

## SURFACE PREPARATION

- Concrete surface must be clean and sound.
- Remove all deteriorated concrete, dirt, oil, grease, and other bond-inhibiting materials from the area to be repaired.
- Be sure repair area is not less than 1/2" in depth.
- Preparation work should be done by high pressure water blast, scabbling or other appropriate mechanical means to obtain an exposed aggregate surface profile of  $\pm 1/8"$  (3 mm) [minimum CSP-6].
- To ensure optimum repair results, the effectiveness of decontamination and preparation should be assessed by a Tensile Adhesion Strength (pull-off) test.
- Saw cutting perimeter edges of concrete repair area at a dovetail angle is preferred.
- Substrate should be Saturated Surface Dry (SSD) with clean water prior to application. No standing water should remain during application.
- Rust, scale, mortar, concrete, dust and other loose and deleterious material which reduces bond or contributes to corrosion shall be removed from steel reinforcement.

## MIXING

- Wet down all tools and mixer to be used.
- Pour 6 pints (2.8 L) of clean potable water [approximately 70° F (23° C)] into a suitably sized and clean mixing container, using a calibrated measuring jug or similar, to ensure strict control of the water content.
- Add 1 pail while continuing to mix with a low-speed drill (400-600 rpm) and mortar mixing paddle or in an appropriate mortar mixer.
- Once all the powder has been added, mix to a uniform consistency, maximum 3 minutes, until a lump-free blend is achieved.
- Add up to an additional 1/2 pint (0.24 L) maximum of liquid to achieve desired consistency. Do not over-water.
- Thorough mixing and proper proportioning of the powder and liquid is necessary.
- Inaccurate proportioning of the powder to liquid will result in a finished product that may not conform to the typical published performance property values.

## APPLICATION

- A neat mix of SikaQuick®-800 mortar must be scrubbed into the mechanically prepared, SSD substrate. Be sure to work into all pores and voids.
- Force material against edge of repair, working toward center. After filling repair area, screed off excess.
- Allow material to set to desired stiffness, then finish with wood or sponge float for a smooth finish, or broom or burlap-drag for a rough finish.
- If a smoother finish is desired, a magnesium float should be used.
- Mixing, placing, and finishing should not exceed 15

minutes maximum.

- Refer to ACI 305 the "Guide to Hot Weather Concreting" or ACI 306 the "Guide to Cold Weather Concreting" when there is a need to place this product while either hot or cold temperatures prevail. Thinner placements will be more sensitive to the temperature conditions.

## CURING TREATMENT

- As per ACI recommendations for Portland cement concrete, curing is required.
- Moist cure with wet burlap and polyethylene, a fine mist of water or Sika® Antisol®-250W\*.
- Curing compounds adversely affect the adhesion of following lifts of mortar, leveling mortar or protective coatings.
- Moist curing should commence immediately after finishing. Protect freshly applied mortar from direct sunlight, wind, rain, and frost.

\*pretest of curing compound is recommended

## LIMITATIONS

- For larger and thicker pours, please contact Sika's Technical Service.
- Addition of 3/8" aggregate can be considered to optimize the yield.
- Avoid application in direct sunlight, during precipitation and/or when strong winds prevail.
- Use only clean, potable water.
- As with all cement-based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure.
- Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur®-32 Hi-Mod.
- Bonding agents (e.g. Sika® Armatec® 110 EpoCem) should not be used. Use of the neat mortar as a scrub coat is recommended and preferred. If bonding agents are used, follow cure times for the bonding agents used as a guide prior to putting SikaQuick®-800 in service. Assure suitability with the manufacturer of the bonding agent. SikaQuick®-800 does not form a vapor barrier when cured.
- Refer to Sika® Antisol®-250 W product data sheet for use.

## 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.

## OTHER RESTRICTIONS

See Legal Disclaimer.

## ENVIRONMENTAL, HEALTH AND SAFETY

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.

## 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.

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### Product Data Sheet

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Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling 1-800-933-7452.

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