

# Sikacrete® 211

One-component, cementitious,  
pumpable and pourable concrete mix

<b>Description</b>	Sikacrete® 211 is a 1-component, portland-cement concrete containing factory blended coarse aggregate.
<b>Where to Use</b>	<ul style="list-style-type: none"><li>■ Full depth repairs.</li><li>■ On grade, above, and below grade on concrete.</li><li>■ On horizontal, vertical and overhead surfaces.</li><li>■ As a structural repair material for parking facilities, industrial plants, walkways, bridges, tunnels, dams and balconies.</li><li>■ Filler for voids and cavities.</li></ul>
<b>Advantages</b>	<ul style="list-style-type: none"><li>■ Pre-packaged coarse aggregate: Eliminates need to extend material in the field; Eliminates the risk of reactive aggregate.</li><li>■ High bond strength.</li><li>■ Compatible with coefficient of thermal expansion of concrete.</li><li>■ Increased resistance to deicing salts.</li><li>■ Simple-to-use labor-saving system.</li><li>■ Easily mixed.</li><li>■ Good freeze/thaw resistance.</li><li>■ Easily applied to clean, sound substrate.</li><li>■ Not a vapor barrier.</li><li>■ Not flammable</li></ul>
<b>Coverage</b>	Approximately 0.65 ft. <sup>3</sup> /unit
<b>Packaging</b>	80 lb. multi-wall bag.

## Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.)

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

<b>Shelf Life</b>	1 year in original, unopened packaging.
<b>Storage Conditions</b>	Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using.
<b>Color</b>	Concrete gray when mixed.
<b>Mixing Ratio</b>	Mix with clean potable water at rate of up to 1 gallon per bag. Start with 4/5 gallon and mix to consistency required with remainder of gallon.
<b>Application Time</b>	Initial Slump 5"-7"; Slump at 30 minutes >4"
<b>Flexural Strength (ASTM C-78)</b>	<b>28 days</b> 700 psi (5.0 MPa)
<b>Splitting Tensile Strength (ASTM C-496)</b>	<b>28 days</b> 750 psi (3.4 MPa)
<b>Bond Strength* (ASTM C-882 modified)</b>	<b>28 days</b> 1,500 psi (15.2 MPa)
<b>Compressive Strength (ASTM C-39)</b>	
<b>1 day</b>	2,000 psi (13.8 MPa)
<b>7 days</b>	4,500 psi (31.0 MPa)
<b>28 days</b>	5,000 psi (37.9 MPa)
<b>Shrinkage (ASTM C-157)</b>	<b>28 days</b> <0.05%
<b>Chloride ion permeability (Astm C-1202)</b>	<b>28 days</b> <1,500 Coloumbs

\* Mortar scrubbed into substrate.

Construction



Sika®

PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT [HTTP://USA.SIKA.COM/](http://usa.sika.com/) OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA 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 DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

<b>How to Use</b>	
<b>Substrate</b>	Concrete, mortar, and masonry products.
<b>Surface Preparation</b>	<p><b>Concrete:</b> Remove all deteriorated concrete, dirt, oil, grease, and all bond-inhibiting materials from surface. Be sure repair area is not less than 1 in. in depth. Preparation work should be done by high pressure water blast, scabblor, or other appropriate mechanical means to obtain an exposed aggregate surface with a minimum surface profile of <math>\pm 1/8</math> in. (CSP-7). Saturate surface with clean water. Substrate should be saturated surface dry (SSD) with no standing water during application.</p> <p><b>Reinforcing Steel:</b> Steel reinforcement should be thoroughly prepared by mechanical cleaning to remove all traces of rust. Where corrosion has occurred due to the presence of chlorides, the steel should be high-pressure washed with clean water after mechanical cleaning. For priming of reinforcing steel use Sika® Armatec® 110 EpoCem (consult Technical Data Sheet).</p>
<b>Priming</b>	For priming of reinforcing steel use Sika® Armatec® 110 EpoCem (consult Technical Data Sheet).
<b>Mixing</b>	Place 4/5 of 1 gallon water in mixing container. Add Sikacrete® 211 while continuing to mix. Add additional water up to 1 gallon total. Mix to a uniform consistency, maximum 3 minutes. Mechanically mix with a low-speed drill (400-600 rpm) and paddle or in appropriate size mortar mixer or concrete mixer.
<b>Application</b>	<b>Form and pour or pump applications:</b> Pre-wet surface to SSD. Ensure good intimate contact with the substrate is achieved. To accomplish this, material should be scrubbed into the substrate or other suitable means should be employed such as vibration of the material or pumping under pressure. Vibrate form while pouring or pumping. Pump with a variable pressure pump. Continue pumping until a 3 to 5 psi increase in normal line pressure is evident then STOP pumping. Form should not deflect. Vent to be capped when steady flow is evident, and forms stripped when appropriate.
<b>Tooling &amp; finishing</b>	As per ACI recommendations for portland cement concrete, curing is required. Moist cure with wet burlap and polyethylene, a fine mist of water or a water based* compatible curing compound. Curing compounds adversely affect the adhesion of following layers of mortar, leveling mortar or protective coatings. Moist curing should commence immediately after finishing. Protect newly applied material from direct sunlight, wind, rain and frost.
	*Pretesting of curing compound is recommended.
<b>Limitations</b>	<ul style="list-style-type: none"> <li>■ Application thickness: Minimum 1 in. (25 mm); Maximum 8 in. (200 mm)</li> <li>■ Minimum ambient and surface temperatures 45°F (7°C) and rising at time of application.</li> <li>■ Using SikaLatex®, SikaLatex® R or similar products will result in loss of slump and slump retention. Field tests for suitability are strongly recommended.</li> </ul>

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

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

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at <http://usa.sika.com/> or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

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