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# SIKATOP® 144

## Polymer-modified portland cement coating

### DESCRIPTION

SikaTop 144 is a polymer-modified, 2-component, cementitious coating. Designed for use on concrete, mortar, and masonry substrates. Easily applied by brush, roller or spray equipment. This fine textured, abrasion resistant coating is used for protection against deicing salts and for temporary dampproofing/waterproofing.

### HOW TO USE

#### SUBSTRATE

Concrete, mortar, and masonry products

#### SURFACE PREPARATION

**Concrete/Mortar:** All surfaces to be coated must be clean, sound, and saturated surface dry with no standing water at the time of application

#### APPLICATION

SikaTop 144 should be applied with high-quality brushes, rollers, or "hopper-type" spray equipment. Surface should be saturated surface dry prior to application. Two coats are recommended for maximum performance.

#### LIMITATIONS

▲ Maximum thickness of applications is 16 mils/coat, thicker application can result in cracking.

### WHERE TO USE

- ▲ Use on grade, above, and below grade on concrete, masonry, and mortar.
- ▲ Use on horizontal, vertical, and overhead surfaces, both interior and exterior
- ▲ Potable water tanks
- ▲ Use as a coating over newly repaired concrete to provide a monolithic/uniform appearance.
- ▲ Use as a protective coating for waterproofing, dampproofing, and improved resistance to weathering.
- ▲ Use on concrete and masonry substrates to improve abrasion resistance to foot traffic and light pneumatic-tire traffic.

### ADVANTAGES

- ▲ Potable water approved
- ▲ Bond strength ensures superior adhesion
- ▲ Increases resistance of substrate to deicing salts
- ▲ USDA approved for use in food plants
- ▲ May be overcoated with Sikaguard protective coatings

### TYPICAL DATA FOR SIKATOP 144 (Material and curing conditions @73F and 50% R.H.)

<b>POT LIFE</b>	Approx. 4 hours
<b>TACK-FREE TIME</b>	Approx. 30 minutes
<b>RECOAT TIME</b>	Allow 2 hrs. minimum between coats
<b>APPLICATION THICKNESS</b>	8-16 mils/coat
<b>ABRASION RESISTANCE (ASTM D-968 modified)</b>	
<b>7 day</b>	55 liters/mil

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**PACKAGING AND YIELD**  
5 gal. unit consisting of 3.5 gal. plastic pail of Component 'A' and a 45 lb. multi-wall bag of Component 'B'.  
First coat coverage: 100-150 sq. ft/gal.  
Second coat coverage: 150 sq. ft/gal.  
Coverage is dependent upon substrate texture and porosity.

# SIKACRETE 211

**One-component, cementitious, pumpable and pourable concrete mix**

### DESCRIPTION

SikaCrete 211 is a 1-component, portland cement concrete containing factory blended coarse aggregate.

### HOW TO USE

#### SUBSTRATE

Concrete, mortar, and masonry products

#### SURFACE PREPARATION

**Concrete:** Remove all deteriorated concrete, dirt, oil, grease, and all bond-inhibiting materials from surface. Be sure repair area is not less than 1" in depth. Substrate should be saturated surface dry (SSD) during application.

**Reinforcing Steel:** Steel reinforcement should be thoroughly prepared by mechanical cleaning to remove all traces of rust. For priming reinforcing steel use Sika Armatec 110 EpoCem.

#### MIXING

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.

#### APPLICATION & FINISH

Pre-wet surface to SSD. 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.

#### CURING

Moist curing should commence immediately after finishing. Protect newly applied material from direct sunlight, wind, rain and frost.

### WHERE TO USE

- ▲ Full depth repairs
- ▲ On grade, above, and below grade on concrete
- ▲ On horizontal, vertical and overhead surfaces
- ▲ As a structural repair material for parking facilities, industrial plants, walkways, bridges, tunnels, dams and balconies
- ▲ Filler for voids and cavities

### PACKAGING AND YIELD

80 lb. multi-wall bag  
Yields approximately .65 cu. ft/unit

### ADVANTAGES

- ▲ Pre-packaged coarse aggregate
  - Eliminates need to extend material in the field
  - Eliminates the risk of reactive aggregate
- ▲ High bond strength
- ▲ Compatible with coefficient of thermal expansion of concrete
- ▲ Increased resistance to deicing salts
- ▲ Simple to use labor-saving system
- ▲ Easily mixed
- ▲ Good freeze/thaw resistance
- ▲ Easily applied to clean, sound substrate
- ▲ Not a vapor barrier
- ▲ Not flammable, non-toxic

TYPICAL DATA FOR SIKACRETE 211 (Material and curing conditions @ 73F and 50% R.H.)	
<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 Slump at 30 minutes
<b>FLEXURAL STRENGTH (ASTM C-78)</b>	
28 Days	700 psi (5.0 MPa)
<b>SPLITTING TENSILE STRENGTH (ASTM C-496)</b>	
28 Days	750 psi (3.4 MPa)
<b>BOND STRENGTH (ASTM C-882 MODIFIED)</b>	
28 Days	1500 psi (15.2 MPa)
<b>COMPRESSIVE ST RENGTH (ASTM C-39)</b>	
1 Day	2000 psi (13.8 MPa)
7 Days	4500 psi (31.0 MPa)
28 Days	5000 psi (37.9 MPa)
<b>SHRINKAGE (ASTM C-157)</b>	
28 Days	<0.05%
<b>CHLORIDE ION PERMEABILITY (ASTM C-1202)</b>	
28 Days	<1500 Coloumbs