



The Pro's Choice Since 1936

# Non-Shrink Construction Grout

PRODUCT # 16350

Sakrete® Non-Shrink Construction Grout is a non-shrink, non-metallic, structural hydraulic cement for high-strength grouting.

### FEATURES AND BENEFITS:

- Meets ASTM C 1107 Packaged Dry, Hydraulic-Cement Grout (Non-shrink)
- Non-corrosive, Will Not Attack Reinforcement
- Non-shrink, Per ASTM C 1107
- Non-metallic, Non-Staining, Gray Color
- Meets Corps of Engineers Specification CRD-C 621
- Plastic and Flowable Consistency
- Pumpable for Easy Placement
- Super Plasticized for Improved Strength

### USES: Grouting of

- Concrete - poured in place, precast, tilt-up and prestressed
- Heavy Machinery
- Sole Plates
- Anchor Bolts
- Steel Bearing Plates
- Dowel Rods
- Reinforcing Steel in Block Cells
- Concrete Columns

### SAFETY:

READ and UNDERSTAND the Material Safety Data Sheet (MSDS) before using this product. WARNING: Wear protective clothing and equipment. See HMIS block. For emergency information, call CHEMTREC at 800-424-9300 or 703-527-3887 (outside USA). KEEP OUT OF REACH OF CHILDREN.

### PREPARATION:

Remove all unsound concrete, grease, oil, paint, and any other foreign material that will inhibit performance. Prior to grout placement, all surfaces must be clean and saturated with water for 24 hours. Remove excess water before placing the grout. Provide air relief holes where necessary if grouting is beneath large plates.

Suggestions in Form Work: Wood form work or other absorbent forms should be coated with a form release oil to prevent grout adherence and water absorption. Design form work to facilitate rapid, continuous and complete filling of the space to be grouted. Use methods that will enable the grout to flow by gravity between the surfaces and keep the grout in full contact with these surfaces until it has hardened.

Refer to: ACI 351.R-99 Report on Grouting between Foundations and Bases for Support Equipment and Machinery for important information and recommendations.

### TECHNICAL DATA:

| <u>Consistency of Flow</u> | <u>Plastic</u>          | <u>Flowable</u>         |
|----------------------------|-------------------------|-------------------------|
| ASTM C 942                 | 115%                    | 140%                    |
| 24 hours                   | 3,000 psi<br>(20.7 MPa) | 2,000 psi<br>(13.8 MPa) |
| 3 days                     | 6,200 psi<br>(42.7 MPa) | 6,000 psi<br>(41.4 MPa) |
| 7 days                     | 7,400 psi<br>(51.0 MPa) | 7,000 psi<br>(48.3 MPa) |
| 28 days                    | 8,500 psi<br>(58.6 MPa) | 8,300 psi<br>(57.2 MPa) |

### MIXING:

Add only clean water. The water quantities shown are approximate and may vary slightly with type of equipment and application conditions. Water demand and mix temperature must be determined using standard test methods for consistency and temperature measurement at the time of application.

Desired Grout Consistency:

Flowable (Pumping Consistency), 50 lbs. (22.7kg) Grout, approximately 1.1 Gallons Water (4.2 L)

Plastic (Trowel Consistency), 50 lbs. (22.7 kg) Grout, approximately 1.0 Gallon Water (3.8 L)

### PLACEMENT:

Use a mixer large enough to permit continuous placement before any part of the grout has set. Place the grout quickly. Rodding the grout lightly will help move material. Avoid vibration which can cause bleeding and segregation. Shut down nearby machines.

The air, mix & substrate temperatures should all be between 40°F (4.4°C) and 90°F (32.2°C).

### CURING:

SAKRETE Construction Grout can be exposed under normal weathering conditions. Forms may be removed as soon as the grout reaches its final set. Protect from freezing for a minimum of 48 hours after placement. ACI 308-Standard Practice for Curing Concrete.

### STORAGE:

Store in a tightly closed container off the floor in a dry place.

### COVERAGE:

50 lbs. covers 0.45 cu. ft. ((12.7 L)

### PACKAGING:

50 lb. bag (22.7 kg) UPC: 7-64661-16350-3

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## ENVIRONMENTAL ADVISORY:

Uncured or crushed cured cement is an environmental hazard, which may adversely affect fish and wildlife. Dispose of construction debris containing cement, including empty bags, at a permitted municipal disposal firm. Do not use crushed concrete as a fill near an aquatic habitat.

### HMIS BLOCK

#### Non-Shrink Construction Grout

|                            |          |
|----------------------------|----------|
| <b>HEALTH</b>              | <b>3</b> |
| <b>FLAMMABILITY</b>        | <b>0</b> |
| <b>REACTIVITY</b>          | <b>1</b> |
| <b>PERSONAL PROTECTION</b> | <b>X</b> |

**WARNING! CAUSES IRRITATION** - Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Exposure may result in irritation of the skin, eyes or nasal passages from alkali in Portland cement. When wet, contact with the skin or eyes may result in irritation or burns. **FIRST AID:** In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get prompt medical attention; for skin, wash thoroughly with plenty of soap and water. If irritation persists, get medical attention. **WARNING! HARMFUL IF INHALED** - Avoid breathing dust. Keep container closed. Use with adequate ventilation. Excessive exposure by inhalation over an extended period of time may result in the development of pulmonary diseases including pneumoconiosis and silicosis. Crystalline Silica has been classified by IARC and NTP as a carcinogen.

### LIMITED PRODUCT WARRANTY

The manufacturer warrants that this product shall be of merchantable quality when used or applied in accordance with the manufacturer's instructions. This product is not warranted as suitable for any purpose other than the general purpose for which it is intended. This warranty runs for one (1) year from the date the product is purchased. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED TO THE DURATION OF THIS WARRANTY. Liability under this warranty is limited to replacement of defective product or, at the manufacturer's option, refund of the purchase price. CONSEQUENTIAL AND INCIDENTAL DAMAGES ARE NOT RECOVERABLE UNDER THIS WARRANTY.

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