

GUN-RITE CEMENT FEATURES

- Proven "Gun-Rite Durability"
- Very Low Rebound & Low Waste
- High Strength – Over 6,000 PSI
- High Reactive Pozzolan Enhance
- Fiber Reinforced
- Factory Blended
- Add to Locally Supplied Sand (low cost)
- Easy Pumping, Shooting & Finishing

WHERE TO USE

- Large and Small Structural Repairs
- Bridge Repairs
- Parking Garage Restoration
- Interior or Exterior Surfaces
- Wastewater Tanks
- Slope Stabilization
- Mines or Manholes

GUN-RITE
CEMENT

Gun-Rite Cement is a complete high performance shotcrete cement that is simply mixed with locally supplied aggregate to give durability and consistency. **Gun-Rite Cement** contains cement, and the widely used "**Gun-Rite**" formulation to assure quality and durability.

Product Description

Gun-Rite Cement is a special blend of cements, High Reactive Pozzolans, alkaline resistant fibers, water reducers, air entrainment, corrosion inhibitors and exclusive modifiers. Designed for general-purpose and high performance shotcrete/gunite applications.

Gun-Rite Cement Packaging and Yield

70 lb. Heavy-duty polyethylene bag:

| |
|--------------------------------------|
| 8 cubic feet mix |
| 3-70 lb. Bags Gun-Rite Cement |
| 900 lb. concrete sand |
| Approx 8-9 gallons water |

For Best Results

Use concrete sand that conforms to ASTM C-33. Apply Gun-Rite enhanced shotcrete above 40° F. Follow ACI guidelines for preparation, shooting and curing. Use approx. 3-3.5 gal. water per bag of product. Water may vary depending on equipment and aggregate moisture.

Technical Data

| | | | |
|------------------------------|--------|----------------------|------------|
| Compressive strength | 28 day | Exceeds 6,000 psi | ASTM C 39 |
| Compressive strength | 7 day | Exceeds 4,000 psi | ASTM C 39 |
| Compressive strength | 3 day | Exceeds 3,000 psi | ASTM C 39 |
| Flexural strength | 28 day | Exceeds 1,200 psi | ASTM C 78 |
| Freeze / Thaw Durability: | | Excellent 300 cyl | ASTM C666 |
| Shear Bond Stress: | | Exceeds 1,500 psi | ASTM C1042 |
| Rapid Chloride Permeability: | | Below 1,000 Coulombs | |
| Air Content | | 4 to 7% | |

Reasonable variations for the above data can be expected depending on field conditions, surface preparation, curing, contractor expertise and evaluation and/or handling of test cylinders. Contact JE Tomes for additional details

LIMITED WARRANTY

JE Tomes & Associates, Inc. warrants its products to be free from manufacturing defects, and will deliver, at no charge, an equal amount of packaged product as that amount proven to be defective when applied in accordance with manufacturer's written directions by contractors experienced in this application, and used in applications recommended by the manufacturer as suitable for the product. All claims concerning product defects must be made within twelve (12) months of use of the product. THERE ARE NO OTHER WARRANTIES BY JE TOMES & ASSOCIATES, INC. OF ANY NATURE WHATSOEVER, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IN CONNECTION WITH PRODUCTS WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. Buyer's sole and exclusive remedy for breach of any warranty shall be replacement of defective product. JE Tomes & Associates, Inc. shall not be liable for any damages, including consequential damages, except as otherwise set forth therein.

Surface Preparation

Remove all unsound or delaminated concrete and provide a 3/4 inch minimum clearance behind reinforcing steel. The perimeter of the area to be patched should be tapered toward the center at approximately 45° or saw-cut to a minimum depth of 1/4 inch. After concrete removal and prior to placement, mechanically abrade the concrete surface such as sand blasting to remove all bond-inhibiting materials from the concrete substrate. Apply **JE Tomes B-1 Rebar Coating** or approved coating to any exposed reinforcement if a coating is specified. Presoak prepared concrete surface to provide a saturated surface dry (SSD) condition.

Mixing Guidelines / Dosage Rate

For Wet-Method Shotcrete: Add approximately 3 to 3.5 gallons of clean water and up to 300 lbs. of concrete sand per 70 lb. bag of **Gun-Rite Cement**. Actual water will depend on moisture content in sand. Add **Gun-Rite Cement** into water and sand to achieve a uniform mix. Mix with mortar mixer or force action mixer. Hold back 1 part water and mix for 2-3 minutes. Add remaining water to the mix as needed and mix until desired consistency is achieved. For Dry Method Shotcrete: Pre-dampen mixer. Add 300 lbs. sand per 70 lb. bag of Gun-Rite Cement. Mix and Shoot in accordance to ACI 506 Guidelines.

Application

Apply in accordance with ACI 506R "Guide to Shotcrete." After achieving a SSD condition, apply product while taking consideration for rebound and compaction around reinforcing steel. Shoot material at 90 degrees to the surface whenever possible. If multiple lifts are being used, apply succeeding lift after first lift has reached final set. If succeeding lift is not promptly placed, keep the surface moist. Cut off or level as required.

Curing

Rapid drying of cement-based products may cause cracking or de-bonding. Avoid applications in high winds, excessive heat or blowing air directly on freshly placed product. Apply approved curing compound, or moist cure a minimum of 7 days. Contact JE Tomes if you have any questions or particular concerns with your application.

Applicable Standards

| | |
|-----------------------------------|-------------|
| CEMENT: | ASTM C 150 |
| WATER-REDUCING: | ASTM C 1141 |
| AIR-ENTRAINING: | ASTM C 260 |
| HIGH REACTIVE /NATURAL POZZOLANS: | ASTM C 618 |
| FIBERS: | ASTM C 1116 |



JE Tomes & Associates, Inc.

2513 West 140th Place, Blue Island, IL. 60406

Telephone: 708-653-5100

Toll free: 877-JETOMES

Fax: 708-653-5101

E-3

Updated: 4/11