



# Gun-Rite™ 5000

A complete high performance shotcrete mix | Factory blended and packaged

## Repair Thickness

Tapered edge to 5" per application

## Set Time

30 minutes

## Application Technique

Spray

## Uses

- Large and small structural repairs
- Bridge repairs
- Parking garage restoration
- Interior or exterior surfaces
- Wastewater tanks
- Slope stabilization
- Mines or manholes

## Advantages

- Department of Transportation approved
- Very low rebound & low waste
- High strength—Over 7500 PSI
- Low resistivity
- High reactive pozzolan enhanced
- Portland Cement based
- Factory blended—One component

## Package yield

60 lb. Heavy-duty polyethylene bag	0.5 cu ft
3000 lb. Bulk Bag	25 cu ft

## Product Description

**Gun-Rite 5000** is a complete high performance wet method shotcrete mix factory blended and packaged to ensure consistency and reduce on-site mixing and labor. Gun-Rite 5000 contains cement, aggregate, and a proprietary blend of modifiers. The widely used "Gun-Rite" formulation assures quality and durability.

**Gun-Rite 5000** is a special blend of cement, aggregate, high reactive pozzolans, alkaline resistant fibers, water reducers, air entrainment, and exclusive modifiers. It is designed for general-purpose and high performance wet method shotcrete applications.

## Surface Preparation

Remove all unsound or delaminated concrete and provide  $\frac{3}{4}$  inch minimum clearance behind exposed 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  $\frac{1}{4}$  inch. After concrete removal and prior to placement, mechanically abrade the concrete surface with a method 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

Add approximately 2  $\frac{1}{2}$  - 3 quarts of clean water per 60 lb. bag of Gun-Rite 5000. Always add dry powder into water. 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.

## 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.

## For Best Results

Apply Gun-Rite enhanced shotcrete above 40° F. Follow ACI guidelines for preparation, shooting and curing. Use approx. 3 quarts water per 60 lb. of product. Water may vary depending on equipment.



# Gun-Rite™ 5000

## Technical Information

<b>Compressive strength, 28 day</b>	Exceeds 7500 psi	STM C109
<b>Compressive strength, 7 day</b>	Exceeds 5000 psi	ASTM C109
<b>Compressive strength, 1 day</b>	Exceeds 3000 psi	ASTM C109
<b>Flexural strength, 28 day</b>	Exceeds 1200 psi	ASTM C438
<b>Freeze/thaw durability</b>	Excellent 300 cyl	ASTM C666
<b>Slant shear strengths</b>	Exceeds 2500 psi	ASTM C348
<b>Rapid chloride permeability</b>	Very low	
<b>Chloride content</b>	0.03%	ASTM C882
<b>Resistivity</b>	Below 7000 –cm	
<b>Air content (wet method shotcrete)</b>	4 – 7%	ASTM C231
<b>Splitting tensile</b>	Exceeds 700 psi	
<b>Potential alkali reactivity of aggregates</b>	Minimal, 0.0001%	ASTM C1260
<b>Water absorption</b>	Excellent, Below 5%	
<b>Wet density</b>	Fresh mix, 132 pcf	
<b>Shrinkage</b>	Minimal, 0.01%	ASTM C157
<b>Working time</b>	Fresh mix, Up to 45 min	

## Applicable Standards

<b>High reactive / natural pozzolans</b>	ASTM C 618
<b>Fibers</b>	ASTM C 1116
<b>Packaging &amp; performance</b>	ASTM C 1480
<b>Cement</b>	ASTM C 150
<b>Aggregate</b>	ASTM C 33
<b>Water reducing</b>	ASTM C 1141
<b>Air entraining</b>	ASTM C 260

## 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.