

## GUN-RITE HP FEATURES

- The Original Blended Shotcrete Enhancer
- Very Low Rebound & Low Waste
- High Strength – Over 6,000 PSI
- High Reactive Pozzolan Enhanced
- Fiber Reinforced
- Add to Locally Supplied Sand & Cement
- Extremely Durable
- 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 HP

**Gun-Rite HP** is a complete shotcrete enhancer / admixture that is simply mixed with locally supplied cement and aggregate. **Gun-Rite HP** enhances durability & workability while reducing rebound and waste. **Gun-Rite HP** has unique packaging that gives shotcrete mixes complete admixture consistency and control.

### Product Description

**Gun-Rite HP** is a special blend of high reactive pozzolans, alkaline resistant fibers, water reducers, air entrainment and exclusive modifiers. Designed for general-purpose and high performance wet method shotcrete/gunitite applications.

### Gun-Rite HP Packaging and Yield

**Gun-Rite HP** is packaged in 35 or 70 lb. Heavy-duty polyethylene-line bags producing 8 cubic ft. of hardened shotcrete when suggested mix design (below) is used.

#### 8 cubic foot mix:

1-70 lb. or 2-35 lb **Bag(s) Gun-Rite HP**  
2-94 lb. bags type I cement  
900 lb. concrete sand  
Approx 8-9 gal. 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. Water may vary depending on equipment and sand moisture content.

### Technical Data

Compressive strength	28 day	Exceeds	6,000 psi	ASTM C 42
Compressive strength	7 day	Exceeds	3,500 psi	ASTM C 42
Compressive strength	3 day	Exceeds	2,500 psi	ASTM C 42
Flexural strength	28 day	Exceeds	1,200 psi	ASTM C 78
Freeze / Thaw Durability:		Excellent	300 cyl	ASTM C 666
Shear Bond Stress:		Exceeds	1,500 psi	ASTM C 1042
Rapid Chloride Permeability:		Below	1,000 Coulombs	
Air Content (wet method shotcrete)			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

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### Surface Preparation

Remove all unsound or delaminated concrete and provide ¼ 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 ¼ 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 8-9 gallons of clean water, 188 lbs. of type I cement and 900 lbs. of concrete sand per 70 lb. bag of **Gun-Rite HP**. Always add dry powder into water. Add and 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 debonding. 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

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



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