



Gun-Rite™ HP-D

Dry method shotcrete/gunite enhancing admixture

Repair Thickness

Tapered to 5"

Set Time

45 minutes

Application Technique

Spray

Where to Use

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

Features

- Very low rebound & low waste
- High strength—Over 6000 psi
- High reactive pozzolan enhanced
- Fiber reinforced
- Add to locally supplied sand & cement
- Extremely durable
- Easy shooting & finishing

Packaging and Yield

35 lb Heavy-duty polyethylene-lined bag 4 cu ft

Product Description

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

Gun-Rite HP-D is a special blend of high reactive pozzolans, alkaline resistant fibers, air entrainment and exclusive modifiers. Designed for general purpose and high performance dry method shotcrete/gunite applications.

Suggested Mix Design

One 35 lb bag **Gun-Rite HP-D** + One 94 lb bag type I cement + 450 lb concrete sand

For Best Results

Use concrete sand that conforms to ASTM C-33. Apply Gun-Rite enhanced shotcrete/gunite above 40° F. Follow ACI guidelines for preparation, shooting and curing. Water may vary depending on equipment and sand moisture .

Surface Preparation

Remove all unsound or delaminated concrete and provide ¾" 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". 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.

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 the succeeding lift after the first lift has reached the final set. If the 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.



Gun-Rite™ HP-D

Technical Data

Compressive strength, 28 day	Exceeds 6000 psi	ASTM C42
Compressive strength, 7 day	Exceeds 3500 psi	ASTM C42
Compressive strength, 3 day	Exceeds 2500 psi	ASTM C42
Flexural strength, 28 day	Exceeds 1200 psi	ASTM C78
Freeze/thaw durability	Excellent, 300 cyl	ASTM C666
Shear bond stress	Exceeds 1500 psi	ASTM C1042
Rapid chloride permeability	Below 1000 Coulombs	
Resistivity	Below 7000 cm	

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.

Applicable Standards

Air entraining	ASTM C260
High reactive/Natural pozzolans	ASTM C618
Fibers	ASTM C1116

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.