

Gun Shot

**Dry process spray applied,
fiber reinforced,
silica fume enhanced,
shotcrete with
ECB-Tech corrosion protection.**

WHERE TO USE
**Large and/or deep vertical
and overhead concrete repairs
where high production
and efficiency are important.**

PERFORMANCE CHARACTERISTICS

Low shrinkage

- Maintains integrity of repair, resists cracking.

Thermal compatibility

- Prevents delamination due to temperature change.

Corrosion protection

- Protects reinforcing steel in repair zone and suppresses ring anode effect.

Durable

- Resistant to weathering action, excellent freeze/thaw stability and abrasion resistance.

Very low permeability

- Resistant to deicing salts, carbonation, chloride, and chemical attack.

High build

- Place up to 2 inch lifts in a single pass.

Economical

- Improves productivity.

Consistent results

- Excellent consolidation around reinforcing steel.

High early strength

- Minimize out-of-service time.

SURFACE PREPARATION

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper bond.
- Saw cut edges with a diamond blade at a 90° angle to eliminate feather edging. Avoid polishing the edges, as this will inhibit bond.
- Avoid bruising or micro cracking during surface preparation. Refer to ICRI Surface Preparation Guide 03732.
- Repair zone must be a minimum of 1/2 inch deep, of simple geometry, with no complex edge conditions.
- Avoid long narrow repairs; these have a greater tendency to crack.
- Apply *Conpro Start* where a consolidant is of benefit.
- Saturate substrate with clean water, (saturated surface dry/SSD), with no standing water during *Priming* or *Application*.
- Remove concrete from corroded steel and several inches beyond to expose non-corroded steel.
- Provide a 3/4 inch clearance between the concrete and steel.
- Damaged reinforcing steel should be inspected by a qualified engineer and appropriate action taken.

PRIMING

Concrete

- Apply *Conpro Primer*, or *ECB* as a bonding primer to all exposed surfaces. Refer to the individual product technical data bulletin for information.

Reinforcing Steel

- Remove all scaling rust from reinforcing steel.
- Apply *ECB* anti-corrosion coating.

MIXING

- There is no mixing. Water is introduced at the nozzle.

APPLICATION

- Apply with conventional dry spray shotcrete equipment.
- Follow ACI 506R, Guide to Shotcrete.
- Maintain nozzle distance to surface between 2 - 6 ft. and angle to surface at 90°.
- Nozzle man should be properly trained and certified for application.
- Material may be applied in multiple lifts of not less than 3/8 inch and no greater than 2 inches.
- Allow material to stiffen to thumb-print hard before continuing.
- Scratch (cross-hatch) each lift to prepare surface for subsequent lift.
- Strike off with straight edge to a uniform plane, close with a trowel or sponge float.

CURING

- Dampen the repair with a fine mist of water for 24 hours or moist cure with wet burlap and polyethylene. Alternatively, apply *Conpro C309 Cure & Seal*.
- Protect repair from direct sunlight, wind, rain and frost during curing period.

CLEAN UP

- Clean tools and equipment with water immediately after use. Cured material must be removed mechanically.

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COVERAGE/YIELD

- 0.45 ft.³/50 lbs.

PRODUCT HANDLING

Packaging

- 50 lbs. multi-wall, poly lined bags.

Shelf Life

- 12 months when properly stored.

Storage

- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature or high humidity will reduce shelf life.

LIMITATIONS

- Do not apply unless substrate and ambient temperature can be maintained at a minimum of 40°F for 24 hours. Refer to ACI Cold Weather Application Guidelines.
- Protect application from precipitation and high wind for at least 8 hours.
- Avoid overworking material. A natural gun finish will provide best results.
- Product must be applied by an experienced, certified nozzle man.

HEALTH AND SAFETY

- Product is alkaline.
- Do not ingest.
- Avoid breathing dust.
- Avoid contact with skin and eyes.
- Refer to Material Safety Data Sheet (MSDS) for additional information.

FIRST AID

- In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional. For respiratory problems, remove person to fresh air.

DISPOSAL

- Dispose of material in accordance with local, state or federal regulations.

TECHNICAL DATA

Physical state and appearance		Fine, gray powder with glass fibers
Base		Portland cement with silica fume
pH	Wet mix	>12
Density – cured in place		135 lbs./ft. ³
Setting time	ASTM C953	Final 40 minutes
Percent air – pressure method	ASTM C231	4%
Resistance to deicing chemicals under freeze/thaw	ASTM C672	50 cycles – no effect
Slough	ACI 506 R90	None
Rebound	Vertical	5% typical
Compressive strength – psi	ASTM C109*	1 Day 1800 7 Days 4400 28 Days 5200

*Modified 3 inch x 3 inch cubes.

FOR PROFESSIONAL USE ONLY

Conproco Corp. warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current technical data sheet if used as directed within shelf life. User determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. January 2005.

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