



## THE EUCLID CHEMICAL COMPANY

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# EUCOSHOT B - Accelerated

## SHOTCRETE BINDER MIX

**EUCOSHOT B Accelerated** is a microsilica modified, shotcrete binder to be used with site-available aggregates. This cement based, modified binder is designed for use in dry shotcrete (gunite) mixes. EUCOSHOT B Accelerated contains an alkali-free accelerator that will increase initial set of the shotcrete and improve build properties during shooting.

### PRIMARY APPLICATIONS

- Gunite projects
- Utility structures
- Tunnels
- Mining applications

### FEATURES/BENEFITS

- Complete binder mix for use on projects that have available shotcrete aggregates.
- Helps protect rebar and welded wire mesh from corrosion
- Low chloride salt permeability
- Excellent freeze/thaw resistance
- Sulfate resistant
- Low shrinkage properties
- Initial setting from 2 to 5 minutes, depending on application temperature

### PACKAGING

EUCOSHOT B Accelerated is packaged in 50 lb (22.7 kg) moisture resistant bags and is also available in 3,300 lb (1,500 kg) sacs. Yield will vary according to the amount of aggregate and water added during the shotcreting operation.

**Shelf Life:** 1 years in original, unopened package.

### TECHNICAL INFORMATION

#### Typical Engineering Data

Typical engineering data under laboratory conditions when used at 22% with ACI Gradation #1 aggregate; actual field results will vary.

#### Compressive Strength

ASTM C-109 2" (50 mm) Cubes

1 day	5,500 psi	(38 MPa)
3 days	6,100 psi	(42 MPa)
7 days	7,180 psi	(49 MPa)
28 days	9,700 psi	(67 MPa)

#### Flexural Strength ASTM C-348 (modified)

1 day	710 psi	(4.9 MPa)
7 days	985 psi	(6.8 MPa)
28 days	1,150 psi	(7.9 MPa)

#### Shear Bond Strength ASTM C-882 (modified)

3 days	2,000 psi	(14 MPa)
7 days	2,500 psi	(17 MPa)
14 days	2,800 psi	(19 MPa)
28 days	3,000 psi	(21 MPa)

#### Direct Tensile Bond, (Germann Test)

14 days	350 psi	(2.4 MPa)
28 days	425 psi	(2.9 MPa)

#### Length Change ASTM C-157, 50% R.H.

2 days	-0.003%
7 days	-0.003%
14 days	-0.007%
21 days	-0.025%
28 days	-0.033%

#### Rapid Chloride Permeability, ASTM C-1202

7 days	4,000	coulombs
14 days	1,600	coulombs
21 days	975	coulombs
28 days	575	coulombs

#### Freeze/Thaw Resistance

ASTM C-666 Procedure A

300	cycles	>98% RDM
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#### Scaling Resistance, ASTM C-672

10 cycles	0
20 cycles	0
30 cycles	0
50 cycles	0

**Appearance**-EUCOSHOT B Accelerated is a free flowing powder as packaged.

## **DIRECTIONS FOR USE**

### **Mixing-Dry Shotcrete/Gunite:**

**Application**-Thoroughly mix EUCOSHOT B Accelerated with site available aggregates before loading into gun. Aggregates should conform to ACI gradations for best results.

## **PRECAUTIONS / LIMITATIONS**

- Not to be used as a binder for wet mix shotcrete; this product contains an accelerator and can attain initial set within 2 minutes of coming in contact with water.
- For optimum results, condition material to 65-85°F (18-29°C).
- Store product in a dry place.

## **ADDITIONAL INFORMATION**

For more information on the use of EUCOSHOT B Accelerated or any other Euclid Chemical product, contact The Euclid Chemical Company, Underground Sales and Marketing at 1-800-321-7628, extension 8395. The Euclid Chemical Company will assist mining and tunneling operations in testing of materials to assess correct product usage for specific applications.



EucoshotB-Accelerated 12.03

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