



THE EUCLID CHEMICAL COMPANY

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EUCOSHOT B

SHOTCRETE BINDER MIX

EUCOSHOT B is a microsilica modified, shotcrete binder to be used with site-available aggregates. This cement based, modified binder is designed for use in wet or dry shotcrete (guniting) mixes. Where a gunite mix with an accelerator is required, EUCOSHOT B Accelerated should be used.

PRIMARY APPLICATIONS

- Guniting 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

PACKAGING

EUCOSHOT B is packaged in 50 lb (22.7 kg) moisture resistant bags and is also available in 3,300 lb (1,500 kg) sacks. 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	3,500 psi	(24 MPa)
3 days	5,000 psi	(34 MPa)
7 days	7,000 psi	(48 MPa)
28 days	9,500 psi	(65 MPa)

Flexural Strength ASTM C-348 (modified)

1 day	550 psi	(3.8 MPa)
7 days	775 psi	(5.3 MPa)
28 days	1,100 psi	(7.6 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

Scaling Resistance, ASTM C-672

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

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

DIRECTIONS FOR USE

Mixing-Dry Shotcrete/Gunite:

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

Mixing Wet Shotcrete:

Application-EUCOSHOT B should be added to the mixer after the aggregate. Aggregates should conform to ACI gradations for best results.

PRECAUTIONS /LIMITATIONS

- 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 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.



Eucoshot B 9.04

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