

EUCOSHOT B

SHOTCRETE BINDER MIX



DESCRIPTION

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 (gunite) mixes. Where a gunite mix with an accelerator is required, EUCOSHOT B Accelerated should be used.

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

TECHNICAL INFORMATION

Typical Engineering Data Typical engineering data under laboratory conditions when used at 23% with ACI Gradation #1 aggregate; actual field results may vary.

Compressive Strength

ASTM C 109 (2" 50 mm) Cubes	
1 day	3500 psi (24 MPa)
3 days	5000 psi (34 MPa)
7 days	7000 psi (48 MPa)
28 days	9500 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	1100 psi (7.6 MPa)

Shear Bond Strength

ASTM C 882 (modified)	
3 days	2000 psi (14 MPa)
7 days	2500 psi (17 MPa)
14 days	2800 psi (19 MPa)
28 days	3000 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%
4 days	-0.007%
21 days	-0.025%
28 days	-0.033%

Rapid Chloride Permeability ASTM C 1202

7 days	4,000 coulombs
14 days	1600 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.

EUCOSHOT B
Shotcrete Binder Mix

Master Format #: 03 30 00

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PACKAGING

EUCOSHOT B is packaged in 3,300 lb (1500 kg) bulk bags. Yield will vary according to the amount of aggregate and water added during the shotcreting operation.

SHELF LIFE

1 year in original, unopened package.

DIRECTIONS FOR USE

Mixing:

Dry Shotcrete/Gunite: Thoroughly mix EUCOSHOT B Accelerated with site available aggregates before loading into gun. Aggregates should conform to ACI gradations for best results.

Wet Shotcrete/Gunite: EUCOSHOT B should be added to the mixer after the aggregate. Aggregates should conform to ACI gradations for best results. For pumping distances over 50 ft (15m), EUCOSHOT SP can be used to increase pumpability.

PRECAUTIONS/LIMITATIONS

- For optimum results, condition material to 65 to 85°F (18 to 29°C).
- Store product in a dry place.
- In all cases, consult the Material Safety Data Sheet before use.

ADDITIONAL INFORMATION

For more information on the use of EUCOSHOT B, or any other Euclid Chemical product, contact The Euclid Chemical Company Mining and Tunneling Division at 1-800-321-7628, extension 8395.

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