



THE EUCLID CHEMICAL COMPANY

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EUCOSHOT SP

Superplasticizer



EUCOSHOT SP is a liquid, superplasticizing admixture for use in wet shotcrete mixes. EUCOSHOT SP is a normal set admixture, even at high doses.

FEATURES/BENEFITS

- Improves rheological properties
- Reduces water addition requirements
- Improves high early strength development

SPECIFICATIONS/COMPLIANCES

EUCOSHOT SP fully complies with the requirements of ASTM C-494, Types A & F admixtures and AASHTO M-194.

PACKAGING

EUCOSHOT SP is packaged in bulk, 275 gal (1041 liter) totes and 55 gal (208 liter) drums.

Shelf Life: 2 years in original, unopened package.

DOSAGE

Use EUCOSHOT SP at the rate of 10-25 oz per 100 lb (625-1600 ml/100 kg) of cement. technical information

TYPICAL ENGINEERING DATA

The following results were developed under laboratory conditions - ASTM C-494 Test - 19.1% WR

Compressive Strength % of Control

	Specification	Control	EUCOSHOT SP Mix
1	day Min 140	100	171.3
3	days Min 125	100	155.0
7	days Min 115	100	148.3
28	days Min 110	100	152.6
6	months Min 100	100	150.5

Flexural Strength % of Control

3	days Min 110	100	130.2
7	days Min 100	100	124.0
28	days Min 100	100	125.1

Relative Durability Factor

Min 80%	97.93%	102.3%
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Rate of Slump Loss

Shotcrete treated with EUCOSHOT SP retains its plastic consistency for 30 to 90 minutes after dosing depending on the initial slumps and dosage rates. EUCOSHOT SP can be added at the mix plant or at the job site from field dispensers.

Use EUCOSHOT SP-HT as a replacement for EUCOSHOT SP when spraying shotcrete in hot conditions [$>90^{\circ}\text{F}$ (32°C)].

Typical Slump Loss at 70°F (21°C)

Initial Slump.....	Slump after 30 minutes
8 1/2" (216 mm)	7" (178 mm)
9 1/2" (241 mm)	8" (203 mm)

DIRECTIONS FOR USE

EUCOSHOT SP is dispersed into either the water or the entire mix. It should not come in contact with dry cement or other admixtures until they are mixed into the shotcrete batch.

PRECAUTIONS/LIMITATIONS

Care should be taken to maintain EUCOSHOT SP above freezing; however, freezing and subsequent thawing will not harm the material if thoroughly agitated. Never agitate with air.

ADDITIONAL INFORMATION

For more information on the use of EUCOSHOT SP or any other admixture, 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 admixture usage for specific applications.



EucoShot SP 12.03

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