



THE EUCLID CHEMICAL COMPANY

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EUCOSHOT SP-HT

Superplasticizer



EUCOSHOT SP-HT is a liquid, superplasticizing admixture for use in wet shotcrete mixes. EUCOSHOT SP-HT is formulated specifically to extend the working time of shotcrete at temperatures up to 130°F (54°C).

FEATURES/BENEFITS

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

SPECIFICATIONS/COMPLIANCES

EUCOSHOT SP-HT meets or exceeds the following requirements:

- ASTM C 494, Type G
- AASHTO M-194
- ACI 201 - minimal chloride content
- ACI 318 - minimal chloride content

PACKAGING

EUCOSHOT SP-HT 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-HT at the rate of 10-32 oz per 100 lb (625-1600 ml/100 kg) of cement.

Suggested Quantities per 100 lb (100 kg) cement to a 3" (76 mm) slump vs. Air Temperatures

80°F (27°C)	10-16 oz (625-1000 ml)
90°F (32°C)	10-18 oz (625-1125 ml)
100°F (38°C)	12-20 oz (750-1250 ml)
110°F (43°C)	12-24 oz (750-1500 ml)
120°F (49°C)	16-32 oz (1000-2000 ml)
130°F (54°C)	20-32 oz (1250-2000 ml)

TECHNICAL INFORMATION

Typical Engineering Data

Compressive Strengths vs. Control

1 day	up to 140%
3 days	140-160%
7 days	130-150%
28 days	125-135%

Relative Durability

Freeze/Thaw resistance	98.7%
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DIRECTIONS FOR USE

EUCOSHOT SP-HT should not come in contact with dry cement or other admixtures until they are mixed into the shotcrete batch. EUCOSHOT SP-HT is compatible with other admixtures; however, each admixture should be added to the mix separately.

The slump loss will be gradual up to six (6) hours at a temperature of 72°F (22° C) and up to three (3) hours at a temperature of 120°F (49°C) when proper quantities of EUCOSHOT SP-HT are used. Variations in slump loss and setting characteristics are a function of the amount of admixture used, cement characteristics and the mix design selected. An increase in concrete temperature will cause an increase in slump loss and a decrease in initial set time.

PRECAUTIONS/LIMITATIONS

- The use of EUCOSHOT SP-HT varies with every application. Therefore, The Engineering or Technical Services Department of The Euclid Chemical Company should be consulted whenever a question on usage or compatibility with other admixtures is raised.
- EUCOSHOT SP-HT must be protected from freezing.
- Add to mix independent of other admixtures.

ADDITIONAL INFORMATION

For more information on the use of EUCOSHOT SP-HT 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-HT 12.03

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