

MORTAR ADMIXTURE

Master Format #: 04 05 13

ACCELGUARD® 80

NON-CHLORIDE ACCELERATOR FOR MORTAR



EUCLID CHEMICAL

PRODUCT INFORMATION

PACKAGING

Packaged in 55 gal (208 L) drums, 5 gal (18.9 L) pails

SHELF LIFE

2 years in original, unopened container

SPECIFICATIONS/COMPLIANCES

ASTM C494 Type E

DESCRIPTION

ACCELGUARD 80 is an accelerating, water reducing admixture for mortar that does not contain calcium chloride or added chloride ions. It improves certain properties of plastic and hardened mortar, provides benefits such as significant improvement in early stiffening and setting characteristics. ACCELGUARD 80 can be used in mortar which will be in contact with steel since it is completely free of materials that cause corrosion.

PRODUCT CHARACTERISTICS

FEATURES & BENEFITS

- Accelerates mortar set time in cold weather
- Aids in protecting masonry mortar in cold weather
- Reduces job delays during cold weather
- Increases strengths at all ages
- Improves workability
- Completely non-corrosive with steel embedments

PRIMARY APPLICATIONS

- Cold weather masonry work
- Stucco
- Brick laying
- Block and structural clay tile

PRECAUTIONS/LIMITATIONS

- Bring material to 32°F (0°C) before use.
- ACCELGUARD 80 will freeze at temperatures of approximately -15°F (-26°C); however, freezing and thawing will not harm the material if thoroughly agitated at 40°F (4°C) or higher.
- ACCELGUARD 80 is not an anti-freeze for mixed mortar.
- Test batches/mix designs/sample slabs may be required due to variations in local cement and aggregates.
- Keep mortar from freezing until a minimum strength of 500 psi (3.5 MPa) is reached.
- In all cases, consult the Safety Data Sheet before use.

TECHNICAL INFORMATION

PERFORMANCE DATA

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions. Mortars proportioned & tested per ASTM C270 and below are typical test results @ 40°F (4°C).

Dosage: 16 oz (473 ml)/bag of masonry cement

| Mix | Setting Time | 3 Day Strength psi (MPa) | 7 Day Strength psi (MPa) |
|----------|--------------|-----------------------------|-----------------------------|
| Type M | | 470 (3.2) | 975 (6.7) |
| with A80 | 28% faster | 575 (4.0) | 1123 (7.7) |
| Type S | | 428 (3.0) | 825 (5.7) |
| with A80 | 40% faster | 434 (3.0) | 876 (6.0) |
| Type N | | 237 (1.6) | 459 (3.2) |
| with A80 | 38% Faster | 312 (2.2) | 543 (3.7) |

DIRECTIONS FOR USE

ACCELGUARD 80 recommended dosage should be added directly to each batch of mortar at a rate of 6 oz (0.18 L) to 48 oz (1.4 L) per bag. Add directly to mortar after the initial charge of water and the mortar has "wetted out". Mixing: ACCELGUARD 80 is ready to use and requires no pre-mixing. The Euclid Chemical Company recommends the contractor follow typical cold weather masonry practices.

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