



ACCELGUARD® 80

Non-chloride Mortar Accelerator

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.

Primary Applications

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

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

Technical Information

Typical Engineering Data - Mortars proportioned & tested per ASTM C270

Typical Test Results @ 40°F (4°C)

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

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

Appearance: ACCELGUARD 80 is a slightly amber colored liquid which, when added to concrete has no effect on the appearance of treated concrete.

Packaging

ACCELGUARD 80 is packaged in 55 gal (208 L) drums, 5 gal (18.9 L) pails and 6/1 gal (3.8 L) units per case.

Shelf Life

2 years in original, unopened container.

Specifications/Compliances

- ACCELGUARD 80 is formulated to comply with ASTM C 494, Type E, and consequently it may be used in cement mortars to improve their properties.
- In compliance with ASTM C 494, Type E requirements, this product offers a minimum of 5% water reduction which will increase one day strength a minimum of 125% over plain and will quicken the setting time a minimum of 1 hour but no more than 3 hours and 30 minutes.

Dosage Rates

Dosage Rates [per 94 lb (42.6 kg)]

	<u>Daily Working Temperature</u>	
	32°F (0°C) and rising	25°F (-4°C) and rising
Portland cement mortars	1 quart (0.9 L)	1 1/2 quart (1.4 L)
Masonry cement	1 pint (0.47 L)	1 1/2 pint (0.7 L)
Colored mortars	1 pint (0.47 L)	1 1/2 pint (0.7 L)

NOTE: This product does not protect plastic mortar from freezing. This product will allow the mortar to gain strength at a faster rate in cold weather. The mortar must achieve a minimum strength of 500 psi (3.5 MPa) before exposure to freezing temperatures.

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.

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.

Rev. 11.14

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