

MORTAR ADMIXTURE

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EUCO[®] WINTER ADMIXTURE

MASONRY MORTAR ACCELERATOR



EUCLID CHEMICAL

PRODUCT INFORMATION

PACKAGING

Packaged in 55 gal (208 L) drums, 5 gal (18.9 L) pails, and in cases of 1 gal (3.8 L) jugs (6 jugs per case)

SHELF LIFE

3 years in original, unopened container

SPECIFICATIONS/COMPLIANCES

ASTM C494 Type C

ASTM C1384

DESCRIPTION

Euco Winter Admixture (EWA) is a multi purpose liquid calcium chloride admixture designed to accelerate the normal setting rate of mortar, increase strength development at all ages, and to improve workability. It can be used safely with gray or white portland cement or colored masonry cements without causing discoloration.

PRODUCT CHARACTERISTICS

FEATURES & BENEFITS

- Accelerates set times of mortar
- Aids in protecting mortar in cold weather
- Cuts construction cost - no cold weather job delay
- Increases strengths at all ages
- Improves workability

PRIMARY APPLICATIONS

- Brick, block, structural clay tile and glass block to eliminate the dangers connected with freezing mortar joints.

PRECAUTIONS/LIMITATIONS

- Use no more than the prescribed amount of Euco Winter Admixture.
- Test batches/mix design/sample slabs may be required due to variations in local cement and aggregate.
- Keep mortar from freezing until a minimum strength of 500 psi (3.4 MPa) is reached.
- Do not add EUCO WINTER ADMIXTURE directly to dry cement.
- In all cases, consult the Safety Data Sheet before use.

CLEAN UP

Clean tools and equipment with water before mortar hardens.

TECHNICAL INFORMATION

BRICKSET MORTAR

Setting Rate @70°F (21°C)	Plain	with EWA
Initial Set	3 hrs 15 min	2 hrs 15 min
Final Set	5 hrs 0 min	4 hrs 45 min

Compressive Strength ASTM C109, 2" (50 mm) cubes

	Plain	with EWA
24 hours	4.3 psi (.03 MPa)	64 psi (0.4 MPa)
3 days	495 psi (3.4 MPa)	606 psi (4 MPa)
7 days	787 psi (5.4 MPa)	1015 psi (7 MPa)
28 days	857 psi (6 MPa)	1191 psi (8 MPa)

Water Retention ASTM C91	76.1%	82.3%
Absorption ASTM C642	7.0%	5.6%

This product does not protect plastic mortar from freezing, but will allow the mortar to gain strength at a faster rate in cold weather. The mortar should achieve a minimum strength of 500 psi (3.4 MPa) before exposure to freezing temperatures.

STONESET MORTAR

Setting Rate @70°F (21°C)	Plain	with EWA
Initial Set	3 hrs 0 min	2 hrs 10 min
Final Set	5 hrs 0 min	4 hrs 30 min

Compressive Strength ASTM C109, 2" (50 mm) cubes

24 hours	8.5 psi (0.6 MPa)	44 psi (0.3 MPa)
3 days	317 psi (2.2 MPa)	329 psi (2.3 MPa)
7 days	630 psi (4.3 MPa)	643 psi (4.4 MPa)
28 days	773 psi (5.3 MPa)	800 psi (5.5 MPa)

Water Retention ASTM C91	74.0%	80.1%
Absorption ASTM C642	8.3%	7.5%

DIRECTIONS FOR USE

At the recommended dosage rate, EUCO WINTER ADMIXTURE is added directly to the gauging water. Euclid Chemical recommends the contractor follow typical cold weather concreting practices such as the guidelines in ACI 306, Standard Specification for Cold Weather Concreting

Add a quart of Euco Winter Admixture per bag of cement or lime in the mix. Euco Winter Admixture may also be added directly to each mortar batch.

Dosage if added directly to the gauging water at 85 to 100°F (29 to 38°C) if possible

Portland Cement	32° (0°C)	25° (-4°C)	20° (-7°C)
Mortars	1 quart (0.9 L)	1 1/2 quart (1.4 L)	2 quart (1.9 L)
Masonry Cement	1 pint (0.5 L)	1 1/2 pint (0.7 L)	1 quart (0.9 L)
Colored Mortar	1 pint (0.5 L)	1 1/2 pint (0.7 L)	1 quart (0.7 L)

Temperature	EWA	Water
25°F (-4°C)	1 gal (3.8 L)	15 gal (57 L)
20°F (-7°C)	1 gal (3.8 L)	10 gal (38 L)
15°F (-9°C)	1 gal (3.8 L)	7 gal (27 L)

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