

## MORTAR ADMIXTURE

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# EUCO<sup>®</sup> WINTER MIX POWDER

## POWDERED MASONRY MORTAR ACCELERATOR



**EUCLID CHEMICAL**

### PRODUCT INFORMATION

#### PACKAGING

Packaged in cases of 1.25 lb (0.6 kg) bags (20 bags per case)

#### SHELF LIFE

3 years in original, unopened package

#### SPECIFICATIONS/COMPLIANCES

ASTM C494 Type C

### DESCRIPTION

EUCO WINTER MIX POWDER (EWMP) is a multi-purpose, calcium chloride based admixture designed to accelerate the normal setting rate of mortar, increase strength development at all ages and improve workability. EUCO WINTER MIX POWDER is the dry version of the EUCO WINTER ADMIXTURE. It produces virtually the same results in mortar as does the EUCO WINTER ADMIXTURE liquid formula. Tests of EUCO WINTER ADMIXTURE liquid show that both plastic and hardened mortar properties are improved.

### 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

- EUCO WINTER MIX POWDER must be completely dissolved in water prior to the addition of cement, lime and sand.
- Test batches/mix design/sample slabs may be required due to variations in local cement and aggregates.
- Keep concrete from freezing until a minimum strength of 500 psi (3.4 MPa) is reached.
- In all cases, consult the Safety Data Sheet before use.

## TECHNICAL INFORMATION

	NORMAL MORTAR		WHITE CEMENT MORTAR	
	Plain	with EWMP	Plain	with EWMP
Initial Set	3 hrs 15 min	2 hrs 15 min	3 hrs 0 min	2 hrs 10 min
Final Set	5 hrs 0 min	4 hrs 45 min	5 hrs 0 min	4 hrs 30 min
<b>Compressive Strength ASTM C109, 2" (50mm) cubes</b>				
24 hours	4.3 psi (.03 MPa)	65 psi (0.4 MPa)	8 psi (0.06 MPa)	45 psi (0.3 MPa)
3 days	495 psi (3.4 MPa)	600 psi (4 MPa)	300 psi (2.1 MPa)	330 psi (2.3 MPa)
7 days	787 psi (5.4 MPa)	1000 psi (7 MPa)	630 psi (4.3 MPa)	640 psi (4.4 MPa)
28 days	857 psi (6 MPa)	1200 psi (8 MPa)	775 psi (5.3 MPa)	800 psi (5.5 MPa)
Water Retention ASTM C91	76.1%	82.3%	8.3%	7.5%
Absorption ASTM C642	7.0%	5.6%	8.3%	7.5%

This product will increase one day strength a minimum of 125% and will quicken the setting time a minimum of 1 hour but no more than 3 hours and 30 minutes.

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

## DIRECTIONS FOR USE

### Temperatures ranging from 15 to 32°F (-10 to 0°C)

Masonry Cements: one bag of EUCO WINTER MIX POWDER to each bag of masonry cement.

Portland Cement Lime: Two bags EUCO WINTER MIX POWDER to each bag of Portland Cement.

### Above 32°F (0°C)

Masonry Cements: one-half bag EUCO WINTER MIX POWDER to each bag of masonry cement.

Portland Cement-Lime: one bag EUCO WINTER MIX POWDER to each bag of Portland Cement.

Empty contents of bag into mortar mixer with part or all of mixing water. Rotate mixer blades approximately 15 seconds until EUCO WINTER MIX POWDER has dissolved. Add cement, lime and sand or masonry cement and sand in normal manner.

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