

## MORTAR ADMIXTURE

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# HYDRAPEL MORTAR ADMIXTURE

INTEGRAL WATER REPELLENT ADMIXTURE FOR MORTAR



EUCLID CHEMICAL

## PRODUCT INFORMATION

### PACKAGING

Available in cartons of 12 zip-tear pouches weighing 2 lb (0.9 kg), and in 25 lb (11.4 kg) bags for dry blending applications

### SHELF LIFE

2 years in original, unopened package

### SPECIFICATIONS/COMPLIANCES

ASTM C780

ASTM C1072

ASTM C1314

ASTM C1384

ASTM C1403

ASTM C1437

ASTM E514

### TECHNICAL INFORMATION

**Specific Gravity:** ~ 2.01

**Appearance:** Gray Powder

## DESCRIPTION

HYDRAPEL MORTAR ADMIXTURE is a complex dry powder additive formulated to prevent moisture intrusion in masonry structures, and is an essential component of the HYDRAPEL Water Repellent Admixture System. HYDRAPEL MORTAR ADMIXTURE significantly reduces water absorption and efflorescence potential, and will help preserve color and overall mortar integrity as a result. HYDRAPEL MORTAR ADMIXTURE provides added bond strength without affecting plastic properties or normal construction rates.

## PRODUCT CHARACTERISTICS

### FEATURES & BENEFITS

- Superior water repellency
- Excellent bond strength
- Reduced efflorescence potential

### PRIMARY APPLICATIONS

- Masonry Mortar
- Stucco
- Masonry Grout Fill

## PRECAUTIONS/LIMITATIONS

- HYDRAPEL MORTAR ADMIXTURE can effectively impart water repellency when adhering to proper industry (ASTM C270) practices, and when concave or "V" joint tooling is employed (as recommended by NCMA and BIA)
- HYDRAPEL MORTAR ADMIXTURE will not compensate for flaws in building design, improper production procedures, or improper construction methods. The Euclid Chemical Company is not responsible for inappropriate use of HYDRAPEL MORTAR ADMIXTURE.

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## TECHNICAL INFORMATION

HYDRAPEL MORTAR ADMIXTURE has been tested with EUCON HYDRAPEL and EUCON BLOCKTITE treated CMUs in accordance with ASTM E 514 (Standard Test Method for Water Penetration and Leakage Through Masonry), and achieved E-Rated (Excellent) performance after 72 hours.

HYDRAPEL MORTAR ADMIXTURE complies with ASTM C1384 (Standard Specification of Admixtures for Masonry Mortar) as both water repellent and bond enhancing.

The HYDRAPEL SYSTEM has been tested per California Code of Regulations state chapter 2405(c) 3.C. for grout bond shear strength and showed increased CMU/grout bond strength when compared to untreated reference test specimens.

Design and construction details must observe applicable design codes and include the recommendations of NCMA TEK 10-1A: Crack Control in Concrete Masonry Walls; TEK 19-1: Water Repellents for Concrete Masonry Walls; TEK 19-2A: Design for Dry Single-Wythe Concrete Masonry Walls; TEK 19-4A: Flashing Strategies for Concrete Masonry Walls; TEK 19-5A: Flashing Details for Concrete Masonry Walls.

Specified water-repellent projects must include HYDRAPEL MORTAR ADMIXTURE in the associated masonry mortar per data sheet and label instructions. Failure to do so will compromise the performance of HYDRAPEL SYSTEM and is in violation of its guide specification. The use of this product will not compensate for flaws in building design, inadequate production procedures, or improper construction practices.

Only concave or "V" tooled joints should be allowed for water repellent masonry construction incorporating the HYDRAPEL SYSTEM. These recommendations are supported by both the National Concrete Masonry Association and the Brick Institute of America. Remove excess mortar promptly and clean residue using procedures outlined in NCMA TEK 8-2: Removal of Stains from Concrete Masonry

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## DIRECTIONS FOR USE

### For Jobsite Proportioned Masonry Mortar

Add 1 Pouch / 1 Bag (1ft<sup>3</sup> or 0.03m<sup>3</sup>) of Portland Cement

Add 1 Pouch / 2 Bags (2ft<sup>3</sup> or 0.06m<sup>3</sup>) of Masonry Cement

### For Pre-Blended Masonry Mortar

Add 1 Pouch / 6 Bags or 6ft<sup>3</sup> (0.17m<sup>3</sup>) of Masonry Mortar

For non-standard batch sizes - add 5oz or 1/3lb (150g) per bag/each ft<sup>3</sup> (0.03m<sup>3</sup>) of mortar

For Reduced Absorption, Efflorescence Control & General Use

Use approximately 1lb (1/2 Pouch) /100lb (45kg) of portland cement

HYDRAPEL MORTAR ADMIXTURE should be added to approximately 75% of the mix water before sand or cement are added. Simply open zip-tear pouch and pour contents into the mixer while idle. Batch as normal and add sufficient water to achieve desired consistency and mix for 5 minutes total.

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