

522 Mortar Mix Type N, S or M and Portland Cement Lime Mortar With Integral Water Repellent



Longleaf 522 Mortar Mix – a water repellent mortar with Euclid Hydrapel mortar admixture – preblended engineered mix of high grade professional quality sand and masonry cement.



Product Name:

Longleaf 522 Type N, S or M - Portland Cement Lime Mortar with Integral Water Repellent

Manufacturer:

Longleaf Packaging, LLC
621 Good Farm Rd.
Vance, SC 29163
www.longleafpackaging.com

Package Size:

80 lb. & 3,000 lb. bulk bag

Description:

Longleaf Mortar Mix with Hydrapel Mortar Admixture is a complex dry powder additive formulated to prevent moisture intrusion in masonry structures, and is an essential component of the Longleaf 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.

Features & Benefits:

- Eliminates the need to stock liquid admixtures
- Preblended under controlled conditions to meet strict Quality control standards for mix consistency, occurrence level of repellent agent and engineered

performance tolerances

- High bond strength to masonry units
- Extended mortar board life, less re-tempering required
- Increased yield compared to typical field mix mortars
- May be pigmented

Application:

- Laying brick
- Laying block
- Laying stone
- Walls
- Chimneys
- Tuck pointing & repairs

Water Coverage/Yield:

80 lb bag will lay approximately:

- 12 each 8" concrete block
- 35 each standard bricks

One 3,000 lb bulk bag will lay approximately:

- 450 8" concrete blocks
- 1,350 standard bricks

Mortar	Average Compressive Strength		Water Retention Min. %	Air Content Max. %
	Minimum	(MPa)		
Type M	28 days 2500	(17.2)	75	12
Type S	28 days 1800	(12.4)	75	12
Type N	28 days 750	(5.2)	75	12

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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 C 1384 (Standard Specification of Admixtures for Masonry Mortar) as both water repellent and bond enhancing.

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.

Specifications/Compliances:

ASTM International

- ASTM C270
- ASTM C780
- ASTM C1072
- ASTM C1314
- ASTM C1384
- ASTM C1403
- ASTM C1437
- ASTM E514

Workmanship:

This product should be installed in accordance of the applicable ASTM standards and the local building codes. Follow traditional industry best practices appropriate for the application and all weather conditions. Good workmanship along with proper design and details will assure adequate, reliable, and a watertight construction.

Longleaf requires that when using this product in any application or as part of any project that includes this product, the contractor/professional will test all the project components together for compatibility, performance and long-term intended use with accordance with the ASTM standards and industry standards before any construction or use. Written documentation of tests conducted should be acceptable to the contractor/professional. Test results must include the means and methods of application, products used, individual projects conditions and any other standard tests performed. All approved mock ups or samples should be retained until project is completed.

Mixing Instructions:

Mix with a mechanical mixer. For best results the mortar mix should be mixed for 5 minutes, let rest for 2 minutes and then mixed again for an additional 2 minutes.

For silo mixing: Use the same approximate water ratio and follow same procedures.

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For consistency of finish and color, joints should be struck with consistent timing, avoiding early or late tooling.

Caution/Limitations:

Air, mix and substrate temperatures should be between 40°F (4°C) and 90°F (32°C)

- 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.

NOTE: Proper application and installation of all Longleaf products are the responsibility of the end user.

Safety:

READ AND UNDERSTAND ALL THE INFORMATION ON THE SAFETY DATA SHEET (SDS) BEFORE USING THIS PRODUCT. SDS sheets are available at our website www.longleafpackaging.com under technical or call CHEMTREC at 800-424-9300.

WARNING: Wear protective clothing and equipment.

KEEP OUT OF REACH OF CHILDREN.

Limited Warranty:

The manufacturer warrants that this product shall be of merchantable quality when used or applied in accordance with the manufacturer's instructions. This product is not warranted as suitable for any purpose other than the general purpose for which it is intended. For more warranty information, contact the Longleaf Packaging office.

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