



EUCON™ HYDRAPEL™ 2.5

PLASTICIZING, EFFLORESCENCE CONTROLLING AND WATER REPELLENT ADMIXTURE

EUCLID CHEMICAL

PRODUCT INFORMATION

PACKAGING

Available in 275 gal (1041 L) totes,
55 gal (208 L) drums and 5 gal (18.9
L) pails

SHELF LIFE

1 year in original, unopened
container

TECHNICAL INFORMATION

Appearance: White Liquid
Specific Gravity ~ 0.98
Freezing Point ~ 32°F (0°C)

DESCRIPTION

EUCON HYDRAPEL 2.5 is a multi-functional, high performance admixture developed for concrete masonry and other applications. This highly efficient, silicone polymer based admixture greatly increases mix water tolerance by reducing concrete stickiness. When added to the mix, HYDRAPEL 2.5 quickly disperses and chemically bonds to the concrete upon curing. As a result, concrete performance in general and freeze thaw durability in particular is vastly improved. HYDRAPEL 2.5 is also a qualified HYDRAPEL SYSTEM component for water repellent-specified masonry construction.

PRODUCT CHARACTERISTICS

FEATURES & BENEFITS

- Increases water tolerance, cement efficiency, and production rate
- Improved flow maximizes density, strength, and product consistency
- Increased density reduces absorption, efflorescence potential, & freeze thaw degradation
- Superior water repellency protects masonry from wind driven rain
- Adds color retention
- Slower wetting and quicker drying of concrete products inhibit growth of mold and mildew

PRIMARY APPLICATIONS

- Pavers and patio products
- Segmental retaining wall units
- Concrete block and brick
- Stone veneer, decorative precast
- Cast stone

PRECAUTIONS/LIMITATIONS

- EUCON HYDRAPEL 2.5 requires storage between 40°F (4°C) and 95°F (35°C); protect from extreme heat (direct sunlight) and freezing temperatures. EUCON HYDRAPEL 2.5 is not usable after it freezes.
- EUCON HYDRAPEL 2.5 is intended for use with proper mix designs/production methods.
- During construction, excess mortar should be promptly removed; clean residue using procedures outlined in NCMA TEK 8-2: Removal of Stains from Concrete Masonry
- EUCON HYDRAPEL 2.5 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 EUCON HYDRAPEL 2.5.
- For added protection, use an exterior application of CHEMSTOP WB Heavy Duty penetrating sealer.
- HYDRAPEL SYSTEM SPECIFICATIONS can be found in ARCOM MasterSpec Section 042200
- In all cases, consult the Material Safety Data Sheet before use.

TECHNICAL INFORMATION

DOSAGE RATE

EUCON HYDRAPEL 2.5 is recommended for use at a rate of 1 - 8 oz/100 lbs (65 - 522 mL/100 kg) of cementitious material. Add EUCON HYDRAPEL 2.5 after cement has been fully wetted and the majority of total mix water has been introduced - then mix adequately (45 seconds - 2 minutes, depending on mixer) to fully disperse.

SPECIALTY PLASTICIZER

Use at 1 - 1.5 oz/100lbs (65 - 98 mL/100kg) of cementitious material to speed production rate, improve texture and consistency, and to provide differentiated properties in standard block production.

EFFLORESCENCE CONTROL & FREEZE-THAW DURABILITY

EUCON HYDRAPEL 2.5 provides efflorescence control and freeze-thaw durability when used at a dosage rate of 2 - 3 oz/100lbs (130 - 196 mL/100kg) of cementitious material.

WATER REPELLENCY

Normal Weight Block: 2 - 4 oz/100lbs (130 - 260 mL/100kg) of cementitious material

Medium Weight Block: 3 - 5 oz /100lbs (260 - 326 mL/100kg) of cementitious material

Lightweight Block: 4 - 8 oz/100lbs (391 - 522 mL/100kg) of cementitious material

IMPORTANT: The optimal dosage of EUCON HYDRAPEL 2.5 is determined as part of the Euclid Chemical HYDRAPEL CERTIFICATION PROGRAM. For test methods used to evaluate such performance, please refer to NCMA TEK 19-7, "Characteristics of Concrete Masonry Units with Integral Water Repellent."

NOTE: EUCON HYDRAPEL 2.5 is an optional component of the HYDRAPEL SYSTEM for specified water repellency. This 2 part system also requires the use of HYDRAPEL MORTAR ADMIXTURE to resist water penetration through the mortar joints. 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 the HYDRAPEL SYSTEM and is in violation of its guide specification. Incorporation of these products 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 (NCMA) and the Brick Institute of America (BIA). For added protection, The Euclid Chemical Company recommends an exterior application of CHEMSTOP WB Heavy Duty penetrating sealer. Consult your Euclid Chemical representative for additional information on this product.

Performs optimally at wetter than normal dry cast consistencies and is most beneficial where material or production challenges exist. HYDRAPEL 2.0 / HYDRAPEL MORTAR ADMIXTURE both achieve excellent (E-rated) results when tested in accordance with ASTM E514, "Standard Test Method for Water Penetration and Leakage Through Masonry" (extended to 72 hours) with 0% dampness on interior walls.

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WARRANTY: The Euclid Chemical Company ("Euclid") solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. Unless authorized in writing by an officer of Euclid, no other representations or statements made by Euclid or its representatives, in writing or orally, shall alter this warranty. EUCLID MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Euclid product fails to conform with this warranty, Euclid will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Euclid does not authorize anyone on its behalf to make any written or oral statements which in any way alter Euclid's installation information or instructions in its product literature or on its packaging labels. Any installation of Euclid products which fails to conform with such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Euclid's products for the Buyer's intended purposes.