



EUCLID CHEMICAL

# EUCON HYDRAPEL 2.0

Plasticizing/Efflorescence Controlling/  
Water-Repellent Admixture

## Description

EUCON HYDRAPEL 2.0 is a multi-functional, high-performance admixture developed for concrete masonry and other applications. This highly efficient silicone-based product contributes tangible value-added benefits throughout its dosage range, and is also a component of the BLOCKTITE SYSTEM for specified water repellency. EUCON HYDRAPEL 2.0 quickly disperses and chemically bonds to the concrete upon curing, thus ensuring long-lasting protection from water intrusion and related degradation.

## Primary Applications

- Concrete block and brick
- Segmental retaining wall units
- Pavers and patio products
- Cast stone
- Concrete roof tiles
- Stone veneer and other precast products

## Features/Benefits

- Superior water repellency protects masonry products, structures, and their contents
- Extremely low absorption enhances durability, efflorescence control & color retention
- Markedly improved material flow/distribution maximizes density, strength, & product consistency
- Uniquely increases water tolerance, cement efficiency, AND production rate to minimize cost per unit
- Inhibits growth of mold and mildew by virtue of slower wetting and faster drying of concrete products

## Technical Information

**Appearance**.....White, free flowing liquid.

**Specific Gravity**.....0.96

**Freezing point**.....32°F (0°C)

EUCON HYDRAPEL 2.0 is compatible for use with other EUCON plasticizing, efflorescence-controlling, and set-accelerating admixtures to achieve specific performance.

## Packaging

EUCON HYDRAPEL 2.0 is packaged in 275 gal (1041 L) totes, 55 gal (208 L) drums and 5 gal (18.9 L) pails.

## Shelf Life

6 months in original, unopened container.

## Specifications/Compliances

- EUCON HYDRAPEL 2.0 achieves excellent results when tested in accordance with ASTM E 514, "Standard Test Method for Water Penetration and Leakage Through Masonry".

## Directions for Use

**Dosage Rate:** EUCON HYDRAPEL 2.0 is intended for use at a rate of 0.5 to 4 oz/100 lbs (33 ml/100 kg to 261 mL /100 kg) of cementitious material.

### **WATER REPELLENCY:**

Normal Weight Block - 1 to 2 oz/100 lbs (65 to 130 mL /100 kg) of cementitious material.

Medium Weight Block - 2 to 3 oz /100 lbs (130 to 196 mL /100 kg) of cementitious material.

Lightweight Block - 3 to 4 oz/100 lbs (196 to 261 mL/100 kg) of cementitious material.

**IMPORTANT:** Plant evaluation and lab certification procedures will determine the optimal dosage of EUCON HYDRAPEL 2.0 to use for water repellent-specified masonry construction. For test methods used to evaluate such performance, please refer to NCMA TEK 19-7, "Characteristics of Concrete Masonry Units with Integral Water Repellent."

### **EFFLORESCENCE CONTROL:**

EUCON HYDRAPEL 2.0 provides efflorescence control when used at a dosage rate of 1 to 2 oz/100 lbs (65 to 130 mL per 100kg) of cementitious material.

### **PLASTICIZER:**

Use at a rate of 0.5 to 1 oz/100 lbs (33 to 65 mL/100 kg) of cementitious material to speed production and assist with challenging mold configurations.

EUCON HYDRAPEL 2.0 should be added after all materials are thoroughly wetted, and after a minimum of 75% of the total mix water has been added. Never allow contact with dry cement. Mix thoroughly as required based on mixer efficiency.

**NOTE:** EUCON HYDRAPEL 2.0 is a component of a 2-part system that includes the use of BLOCKTITE MORTAR ADMIXTURE to prevent water penetration through the mortar joints. 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.

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 BLOCKTITE MORTAR ADMIXTURE in the associated masonry mortar per data sheet and label instructions. Failure to do so will compromise the performance of the BLOCKTITE 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 BLOCKTITE SYSTEM. These recommendations are supported by both the National Concrete Masonry Association and the Brick Institute of America.

## Precautions/Limitations

- EUCON HYDRAPEL 2.0 must be stored between 40°F (4°C) and 105°F (40 °C). EUCON HYDRAPEL 2.0 must be protected from extreme heat (direct sunlight) and freezing temperatures. EUCON HYDRAPEL 2.0 is not usable after it freezes.
- EUCON HYDRAPEL 2.0 is intended for use with proper mix designs and quality materials.
- EUCON HYDRAPEL 2.0 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 2.0.
- Remove excess mortar promptly and clean residue using procedures outlined in NCMA TEK 8-2: Removal of Stains from Concrete Masonry
- For added protection, use an exterior application of Chemstop WB penetrating silane/siloxane penetrating sealer. NOTE - The coverage rate will be greatly extended due to the reduced rate of initial absorption.
- In all cases, consult the Safety Data Sheet before use.

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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.