



THE EUCLID CHEMICAL COMPANY

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EUCO AQUA SHIELD

CEMENTITIOUS WATERPROOF MEMBRANE SYSTEM

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EUCO AQUA SHIELD is a high performance, cementitious waterproof membrane coating. This fiber-enhanced, acrylic modified mixture produces a highly flexible, breathable, waterproofing membrane that is suitable for interior and exterior applications. When topcoated with EUCO TEXTURE SHIELD this system provides long-term waterproofing protection, increasing the life of the concrete substrate.

PRIMARY APPLICATIONS

- Balconies
- Mechanical Rooms
- Horizontal Waterproofing
- Stadiums
- Walkways
- Fountains

FEATURES/BENEFITS

- Flexibility improves adhesion and accomodates slab movement
- Bridges minor crack movement for improved water proofing
- Breathable
- Low odor
- VOC compliant
- Self-curing

PACKAGING

EUCO AQUA SHIELD is packaged as a two component kit. Each kit has a 50 lb (22.7 kg) bag of powder and 2 gallons (7.6 liter) of liquid in a 5 gallon pail. Both components can be mixed together in the 5 gallon pail.

COVERAGE

One kit of EUCO AQUA SHIELD will cover 115 - 125ft² in one coat. Apply at 1/16" thick for waterproofing capabilities. Maximum thickness of this membrane is 1/8" applied as two 1/16" coats.

APPEARANCE

EUCO AQUA SHIELD is a 2-component kit consisting of a powder and liquid. After mixing and placing, the color will be off-white.

This product is designed to be topcoated with EUCO TEXTURE SHIELD as manufactured by The Euclid Chemical Company.

TECHNICAL INFORMATION

Typical Engineering Data

The following results were developed under laboratory conditions.

- Pot life** at 70°F (21°C) 30 to 80 minutes
- Water Absorption, %**
ASTM D-570, 1 day..... < 2.5
- Adhesion to Concrete, psi**
ASTM D-4541, 14 days..... 193 psi
- Tensile Strength, psi**
ASTM D-412, 7 days..... 132 psi
- Time before recoat**..... within 5 days
- Drying / Working Time @ 70°F (21°C):**
Working Time over concrete..... 20 to 40 minutes
Drying Time..... 1 to 2 hours
Open to Foot Traffic..... @ 24 hours
- Vapor Permeability, ASTM E-96**..... 1.06 g/m²

Shelf Life: 1 year in original, unopened container.

DIRECTIONS FOR USE

Surface Preparation-New concrete and masonry must be a minimum of 14 days old and possess an open surface texture with all curing compounds and sealers removed.

The concrete must be clean and sound. All oil, dirt, debris, paint and unsound concrete must be removed. The substrate must be an absorptive surface.

Bonding-EUCO AQUA SHIELD requires no bond coat.

Mixing - All materials should be in the proper temperature range of 60°F (16°C) - 90°F (32°C). Power mixing is essential using a drill and plaster mixer (a jiffy mixer is also acceptable). Begin mixing at a slow speed. With the liquid in the mixing container, gradually add the powder to the liquid and mix to a smooth, lump free consistency. **DO NOT ADD WATER TO THIS PRODUCT.** Keep mixing at speeds below 400RPM and mix for 3 minutes.

Moving and Non-moving cracks [$<1/16$ " (3.2mm)]

Apply a thin coat of EUCO AQUA SHIELD over prepared crack. Place **Euco Repair Mesh** (fiberglass mesh) into product while still wet and trowel product over mesh. Wait for product to dry and proceed with placement instructions.

Moving and Non-moving cracks [$>1/8$ " (3.2mm)]-

Cut or rout out the crack to a minimum of $3/8$ " (9.5mm) wide by $1/2$ " (12.7mm) deep. Install a backer rod a minimum of $1/2$ " below the surface and fill with a high quality urethane sealant such as **EUCOLASTIC I or II** from The Euclid Chemical Company. After the sealant has cured, apply sufficient mixed EUCO AQUA SHIELD over crack (approximately $1/16$ "). Place **Euco Repair Mesh** (fiberglass mesh) into product while still wet and trowel product over mesh. Wait for product to dry and proceed with placement instructions.

Placement - This product may be applied by hopper gun, brush or trowel. Dampen area prior to application of EUCO AQUA SHIELD. Apply material at a uniform thickness of $1/8$ " - $3/16$ ". To insure proper thickness use a $1/8$ " notched trowel as a gauge. Recommend using EUCOBAR as a finishing aid when placing in direct sun, wind, high temperatures or low relative humidity. Protect from rain until dry.

Curing- EUCO AQUA SHIELD is self-curing. Never wet cure this product.

Top Coat - This product must have a topcoat applied once it has cured. It is recommended to topcoat using EUCO TEXTURE SHIELD or another topping as recommended and manufactured by The Euclid Chemical Company.

CLEAN-UP

Clean tools and equipment with water **immediately** after use. Cured material can only be removed using CONCRETE BLASTER by The Euclid Chemical Company or mechanically.

PRECAUTIONS/LIMITATIONS

- Avoid applications at air and floor temperatures below 50°F (10°C).
- Never add water to this product.
- Protect from rain until completely dry.
- Mix only in the specified proportions.
- Follow ACI cold and hot weather procedures.
- Shelf life is 1 year after manufactured date.
- Product dries very quickly. Cleans tools with water immediately after use. Dried product must be removed with CONCRETE BLASTER or by mechanical means.



Form Euco Aqua Shield - 9.01

WARRANTY: The Euclid Chemical Company ("Euclid") solely and expressly warrants that its products shall be free from defects in materials and workmanship for six (6) months 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.