

## Integral Sealer

Our integral sealer reduces the permeability of concrete, increasing the resistance to moisture penetration, freeze/thaw cycles and deicing salts.



- ✓ *Improved durability, extending service life of concrete*
- ✓ *Integral, so the protection is throughout entire pour*
- ✓ *Perfect for decorative concrete, increasing vibrancy of color*
- ✓ *Eliminate the time you are spending returning to job to clean and seal slab*
- ✓ *Added into your load at the batch plant with verified batch dosage*
- ✓ *Depending on conditions, a topical sealer may be required in 2-3 years*
- ✓ *Value-added performance and immediate protection for your Customer*
- ✓ *We recommend a 4,500 psi mix with a maximum water-cement ratio of 0.45 and proper curing methods per ACI 318 for our region*

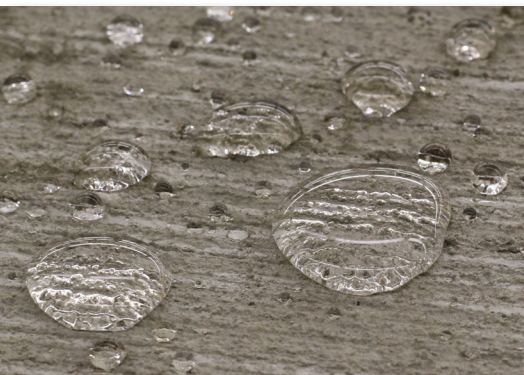
Visit our Website or contact your Salesman/Quality Control Department for more information!

Rev. 5.20



INTEGRAL WATER REPELLENT WITH WEATHERPROOFING TECHNOLOGY

# EUCON BARACADE WPT



## TYPICAL APPLICATIONS

- Driveways, patios, sidewalks
- Architectural precast concrete
- Decorative, integrally colored concrete

## BENEFITS

- Resists freeze-thaw degradation
- Resists deicing chemical attack
- Preserves color vibrancy
- Reduces potential for efflorescence

## FEATURES

- Has minimal effect on other concrete properties
- Is consistent throughout the mix
- Becomes a permanent part of the concrete matrix
- Extends the service life of exterior concrete
- Maintains surface integrity & visual appeal

## PROTECTION FROM THE INSIDE-OUT

EUCON BARACADE WPT is a high-performance, non-chloride water repellent admixture for concrete. It is effective for use in a wide variety of exterior applications, particularly where harsh exposure and/or decorative appeal are of concern. Poured in-place and precast concrete products containing EUCON BARACADE WPT will resist moisture, deicing chemicals, and other water borne contaminants.

## HOW IT WORKS

EUCON BARACADE WPT is a silicone polymer-based emulsion that evenly disperses throughout the concrete. As the concrete sets, the pores and capillaries of treated concrete are lined with water repellent components. This makes the concrete resistant to low-pressure permeability, or moisture "wicking". When used in air-entrained and properly cured concrete, this reduces the potential for surface scaling, spalling, and other weather related damage. For decorative, integrally-colored concrete this wetting resistance promotes faster drying. As a result, efflorescence potential is reduced and color vibrancy is better preserved.

## EUCON BARACADE WPT provides the following advantages vs. surface-applied penetrating sealers:

- Protection is in-place when concrete is installed
- Protection is throughout the mass of the concrete
- Resists surface and subgrade moisture/contaminants



# EUCON BARACADE WPT

INTEGRAL WATER REPELLENT WITH WEATHERPROOFING TECHNOLOGY

## DESCRIPTION

**EUCON BARACADE WPT** is a high performance liquid water repellent admixture used to improve the durability and surface integrity of concrete exposed to harsh weather conditions. By resisting moisture and chloride ion penetration, concrete produced with EUCON BARACADE WPT reduces the potential for scaling, spalling, and other moisture-related degradation. The visual appeal of decorative concrete can also be improved by using EUCON BARACADE WPT to decrease the potential for secondary efflorescence. Unlike topically applied sealers, EUCON BARACADE WPT produces a chemically bonded and insoluble protection mechanism throughout the concrete mix. When concrete is produced with EUCON BARACADE WPT, capillary pores become resistant to water penetration making it less susceptible to freeze-thaw and deicing salt related damage as long as the concrete is properly air entrained. EUCON BARACADE WPT contains no added chlorides or chemicals known to promote the corrosion of steel.

## PRIMARY APPLICATIONS

- Driveways, Sidewalks, and Patios
- Integrally colored decorative concrete
- Architectural precast concrete
- Other exterior concrete exposed to freeze-thaw cycles and deicing salts

## FEATURES/BENEFITS

- Reduces the intrusion of water and deicing chemicals into the concrete
- Increases resistance to weathering
- Reduces absorption rate and capillary wicking
- Improves color retention of integrally colored concrete
- Significantly reduces the potential for efflorescence

## TECHNICAL INFORMATION

Appearance	-	White, free-flowing liquid
Specific Gravity	-	0.96
Freezing Point	-	32°F (0°C)

## PACKAGING

EUCON BARACADE WPT is 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.

## PERFORMANCE CHARACTERISTICS

**EUCON BARCADE WPT** has undergone extensive testing to examine its overall performance in concrete.

These tests include:

- ASTM C39 Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens
- ASTM C67 Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile (Efflorescence)
- ASTM C192 Standard Practice for Making and Curing Concrete Test Specimens in the Laboratory
- ASTM C231 Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method
- ASTM C403 Standard Test Method for Time of Setting of Concrete Mixtures by Penetration Resistance
- ASTM C457 Standard Test Method for Microscopical Determination of Parameters of the Air Void System in Hardened Concrete
- ASTM C642 Standard Test Method for Density, Absorption, and Voids in Hardened Concrete
- ASTM C666 Standard Test Method for Resistance of Concrete to Rapid Freezing and Thawing
- ASTM C672 Standard Test Method for Scaling Resistance of Concrete Surfaces Exposed to Deicing Chemicals
- ASTM C1585 Standard Test Method for Measurement of Rate of Absorption of Water by Hydraulic-Cement Concretes

## DIRECTIONS FOR USE

**DOSAGE RATE:** EUCON BARCADE WPT is recommended for use at a rate of 1 to 6oz per 100 lb (65 to 392 mL/100kg) of total cementitious materials used in the mix. This range is dependent on the application, mix design, and targeted performance. For most applications, 3oz per 100 lb (196 mL/100kg) of total cementitious materials is recommended.

EUCON BARCADE WPT should be added after all materials are batched and mixed to the targeted slump range, then mixed for an additional 5 minutes.

EUCON BARCADE WPT may affect water demand and/or air content with a given set of materials. These properties and required mix adjustments should be determined through trial mixing.

EUCON BARCADE WPT is compatible with most Euclid Chemical admixtures as long as they are added separately to the concrete mix.

**CURING:** Proper curing of the concrete as-placed is essential. Any curing compounds used should be applied as early as possible after finishing.

**MIX DESIGN CONSIDERATIONS:** Minimum compressive strength at 28 days of 4,500 psi (31MPa); maximum water-cement ratio of 0.45

## PRECAUTIONS/LIMITATIONS

- EUCON BARCADE WPT requires storage between 40°F (4°C) and 105°F (40°C); protect from extreme heat/direct sun and freezing temperatures.
- EUCON BARCADE WPT is intended for use with proper materials and mix designs that meet applicable building codes, standards, and ACI guidelines.
- EUCON BARCADE WPT has the potential to reduce compressive strengths. This reduction in strength may increase as the dosage of EUCON BARCADE WPT increases.
- Trial mixes with EUCON BARCADE WPT are recommended to determine dose response and the combined effect of other products used in the mix.
- EUCON BARCADE WPT is specifically intended for exterior applications and preferably broomed, flatwork finishes.

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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.