

BARACADE SILANE 100 C

100% Penetrating Silane Treatment for Concrete and Masonry

Note: The paragraphs below are meant to be incorporated into Parts 2 and 3 of a standard CSI 3 Part Format specification, the General Structural Notes, or directly onto the plans. They must be carefully reviewed by a qualified design professional and edited to meet the requirements of the project and governing building codes. Coordinate with other specification sections and drawings. In no case shall these Guide Specifications be considered to be Contract Documents or serve as installation instructions for the product being discussed. In any cases of discrepancy the manufacturer's most recently published data sheet shall take precedent.

PART 1: GENERAL

{Note to Specifier: Insert the following paragraph and sub paragraphs as required for your project. Euclid's recommended products are shown in italics. More info can be found on these products at www.euclidchemical.com or by clicking on the product links.}

1.01 RELATED WORK:

- A. Joint Fillers – [Eucolastic](#), [Tammsflex](#), [Dural 340](#), [Qwikjoint UVR](#)
- B. Concrete Repair:
 - 1. Vertical and Overhead: [Euco V-100](#), [Tamms Structural Mortar](#)
 - 2. Horizontal: [Express Repair](#), [VersaSpeed](#)
 - 3. Form and Pour: [Eucocrete](#)
- C. Crack Repair/Injection: [Dural 452 LV](#), [Dural Fast Set Epoxy Gel](#)
- D. Bonding Agents: [Duralprep A.C.](#), [Dural 452 MV](#)
- E. Waterproofing/Dampproofing : [Tamoseal](#), [Vandex Super](#), [Hey'Di K-11](#), [Vandex BB75](#)
- F. Architectural Coatings: [Tammscoat](#), [Tammolastic](#)
- G. Anti-Graffiti Coatings: AG 100, [AG-400](#), [Euco 563](#)
- H. Traffic Deck Coatings: [Tammsdeck](#), [Flexdeck](#)
- I. Decorative Floor Coatings: [Duraltex](#)
- J. Epoxy Chemical Resistant Coatings: [Duralkote 240](#), [Duralkote 500](#), [Duraltex 1705/07](#), [Duraltex 1805/07](#)
- K. Penetrating Water Repellents:
 - 1. Horizontal and Vertical: [Baracade WB 244](#), [Baracade 100C](#), [Baracade Silane 40 IPA](#)
 - 2. Vertical: [Chemstop WB Regular/Heavy Duty](#)
- L. Penetrating Epoxy Sealer: [Euco #512 VOX Epoxy Sealer](#)
- M. Cathodic Protection: [Sentinel Galvanic Anodes](#)

1.02 JOB SITE CONDITIONS

- A. Material shall be stored at temperatures below 90 deg F.
- B. Do not apply Penetrating Water Repellent Sealer to frost filled surfaces or when ambient or surface temperatures are below 32 deg F.
- C. Do not apply Penetrating Water Repellent Sealer if rain is expected within 4 to 6 hours.

PART 2.0 PRODUCT

2.01 PENETRATING WATER REPELLENT SEALER

- A. Penetrating Water Repellent: Clear penetrating sealer consisting of 100% silane and meeting the following criteria;

1. Euclid Chemical Company (The): Baracade Silane 100 C
www.euclidchemical.com

Flash Point	154 Deg F (67.8 Deg C).
Depth of Penetration	0.30 inches (7.6 mm)
Dry Time Foot and Wheel Traffic	2 to 4 hours
NCHRP 244, Series II, Reduction in Water Absorption	93 percent
NCHRP 244 Series II, Reduction in Chloride Ion Content	90 percent
NCHRP 244 Series IV (Southern Exposure) Accelerated Weathering	No Change
NCHRP 244 Series IV (Southern Exposure) Reduction In Chloride Ion Content	95 percent
NCHRP 244 Series IV (Northern Exposure) Accelerated Weathering	No Change
NCHRP 244 Series IV (Northern Exposure) Reduction in Chloride Ion Content	91 percent
AASHTO T259 & T260 Resistance to Chloride Ion Penetration	85 percent reduction in absorbed chloride 1/16 to 1/2 inch depth 97 percent reduction in absorbed chloride 1/2 to 1 inch depth
ASTM E514 Water Penetration Reduction CMU	91.4 percent
ASTM C642 Absorption Reduction	93.3 percent
Fed Spec SS-W-110C – Water Repellency	0.53 percent water absorption
Fed Spec SS-W-110C – Weathering	0.60 percent water absorption
Fed Spec SS-W-110C - Efflorescence Resistance	No visible efflorescence
ASTM E96 Water Vapor Transmission	96 percent (2 percent reduction versus control)

- B. Manufacturer shall have ISO 9001 Quality Certification.

PART 3.0 EXECUTION

3.01 SURFACE PREPARATION

- A. New concrete surfaces must be a minimum 3 days old at time of application.
- B. Surface shall be structurally sound, clean, dry, free of dust, dirt, paint, efflorescence, laitance curing compounds and other contaminants that will prevent the proper penetration of penetrating water repellent. A dry substrate is required for proper penetration of the sealer. Prior to application, joints or cracks must be properly sealed. If acid is used for cleaning, neutralize completely before application of penetrating water repellent.
- C. Surfaces must dry a minimum of 24 hours following rain or exposure to other sources of moisture.

3.02 PENETRATING WATER REPELLENT APPLICATION:

- A. Apply [1][2] coat[s] per manufacturer's recommendations utilizing low pressure airless spray equipment.
 - 1. Actual coverage and number of coats to be determined by field test sample application and water absorption testing. Final approval by architect/engineer is required.
 - 2. Where a second coat is required it shall be applied "wet on wet" before the first coat dries.
- B. Do not allow material to puddle. Remove excess material with squeegee or broom.

END OF SECTION