



# VANDEX BB 75

## NSF APPROVED, CEMENTITIOUS WATERPROOF COATING

**EUCLID CHEMICAL**

### DESCRIPTION

**VANDEX BB 75** is an engineered surface waterproof coating with hydrophobic properties that is NSF/ANSI Standard 61 approved for use with potable water. VANDEX BB 75 can be brush or spray applied to either the positive or negative side of a concrete or masonry substrate in need of waterproofing. Tested to over 230 feet of hydrostatic pressure, VANDEX BB 75 is suitable for horizontal and vertical/overhead uses. While resistant to water and moisture, VANDEX BB 75 allows the structure to breathe by allowing the passage of vapor.

### PRIMARY APPLICATIONS

- Structural slabs
- Swimming pools
- Foundations & basements
- Tunnels
- Dams & water reservoirs
- Manholes
- Sewage & water treatment plants
- Culverts
- Spillways

### FEATURES/BENEFITS

- Positive or negative side to minimize excavation
- Allows vapor to pass through substrate
- NSF approved for potable water
- Perfect for vertical/overhead and horizontal surfaces

### TECHNICAL INFORMATION

#### Typical Engineering Data

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

**Material Properties @70°F and 50% RH**

**Setting Time**.....2 to 4 hours

**Compressive Strength, ASTM C109**

28 days .....5,800 psi (39.9 MPa)

**Flexural Strength, ASTM C348**

28 days .....870 psi (6.0 MPa)

**Modulus of Elasticity, ASTM C469**

28 days .....3.1 x 10<sup>5</sup> psi (2,137 MPa)

**Appearance:** VANDEX BB 75 is concrete gray in color

#### Water Permeability of Concrete, CRD C48-92

At the completion of the test, the treated specimens (6" x 6" [15.2 cm x 15.2 cm]) did not exhibit any water leakage. All specimens were tested for 14 days under 200 psi (462 feet of head pressure [13.8 bar]). An independent laboratory test report is available upon request.

### PACKAGING

VANDEX BB 75 is packaged in 55 lb. bags

### SHELF LIFE

1 year in original, unopened package

### SPECIFICATIONS/COMPLIANCES

VANDEX BB 75 is NSF (ANSI STD 61) certified for use with potable water

### COVERAGE

Coverages rates for VANDEX BB 75 vary depending on the application. Below are typical applications and their usage rate.

**Dampness** - 5.5 lbs/yd<sup>2</sup> (90 ft<sup>2</sup>/bag per coat)    **Surface water/seepage** - 7.4 lbs/yd<sup>2</sup> (66 ft<sup>2</sup>/bag per coat)

**Water pressure** - 11 lbs/yd<sup>2</sup> (45 ft<sup>2</sup>/bag per coat)

### DIRECTIONS FOR USE

**Surface Preparation:** The surface must be structurally sound, clean and free of dirt, oil and other contaminants including curing compounds, form release agents, old coatings, paint and efflorescence. New concrete and masonry must be cured a minimum of 7 days. All concrete laitance must also be removed. Provide an absorptive surface (CSP 1-3 in accordance with ICRI Guideline 310.2) on all substrates including precast and formed concrete. The surface must have an open pore appearance for proper adhesion. Remove form marks and other protrusions. Concrete honeycombs, cavities, joints, cracks, voids, tie holes and other defects must be opened and routed to a 3/4" depth or to sound material. No active water leaks should be present at the time of application of VANDEX BB 75. Use SPEED PLUG or VANDEX PLUG to stop all active leaks. Any surface defects need to be addressed with the application of EucoRepair V100. Once prepared, the substrate needs to be soaked with water to a saturated, surface-dry (SSD) condition just prior to the application of the material.

**Mixing:** Mix the entire of bag of VANDEX BB 75 with 1.3 - 1.5 gal of clean water for brush or trowel applications. For spray applications, mix the entire bag with 1.5 - 1.65 gal of clean water. In either case, mix the material for at least 3 minutes with a drill and mixing paddle.

**Application: Brush or trowel:** After the substrate has been prepared as described above, apply VANDEX BB 75 from the bottom-up and work well into the substrate. Ensure that all cavities on the surface are filled. If a second layer is required it must be applied while the first coat is still "green". The time between applications is 2 to 4 hours, depending on local conditions. Take care not to damage the first coat while applying the second coat. If a trowel is used to apply the material, use a mason's brush to texture the first coat prior to the application of the second coat for maximum adhesion.

**Spray:** VANDEX BB 75 may be applied using appropriate spray equipment with compressed air (i.e. hopper gun). For spray equipment, the recommended air pressure is approx. 73 psi with a delivery rate of 18 ft<sup>3</sup>/minute, using a 1/4" nozzle diameter. The first layer of VANDEX BB 75 is applied using a circular motion with nozzle at a 90° angle to the substrate. A trowel or brush is then used to work the material into the substrate. If needed, spray apply a second coat while the first coat is still "green" and can support the second coat. Time between coats is typically 2 to 4 hours, depending on local conditions. The second layer can be trowelled flat or left textured.

**Curing and protection:** VANDEX BB 75 is cement based and will cure in the same fashion as ordinary concrete. For maximum effectiveness, it is essential that the material be wet cured for a minimum of 5 days. Once VANDEX BB 75 has hardened sufficiently, standard wet curing processes such as wet or fog spraying, or covering with polyethylene sheeting, wet burlap or burlene. VANDEX BB 75 must be protected from rain during the first 24 hours and be protected from frost for at least 5 days. Use insulation blankets if necessary. Backfilling can occur 3 days after placement. VANDEX BB 75 treated surfaces need to be protected from gouging and scratching during the backfill process using protective mats or boards.

**Application of topical treatments:** Prior to the application of aesthetic coatings over top of VANDEX BB 75 treated surfaces, the material needs to be cured for 28 days. If a plaster or stucco finish is to be used, apply a compatible bonding agent to the VANDEX BB 75 surface.

**Filling of water retaining structures:** Filling of VANDEX BB 75 treated structures can occur once the material has had sufficient time to cure. Typically, 14 days would be required prior to filling. If the project is "fast-tracked" and the structure needs filled sooner, the material needs to be checked for sufficient hardness no sooner than 7 days after placement.

## CLEAN-UP

Clean mixing and application equipment with water immediately after use. Clean splatter or spills with water before material sets. If allowed to dry on the surface, removal becomes extremely difficult.

## PRECAUTIONS/LIMITATIONS

- Do not apply to frozen or frost filled surfaces or when temperature is below or expected to fall below 40°F within 48 hours.
- Protect treated surfaces from frost for 5 days.
- When applied to the inside of open cisterns, tanks, pools, etc., do not fill with water for at least 7 days after application. Inspect for hardness prior to filling.
- Allow minimum 3 days drying time before backfilling. Use protection boards to prevent gouging.
- Allow 28 days cure before the application of coatings and cementitious treatments.
- Protect treated surfaces for 24 hours from rain.
- Apply a test patch to evaluate performance and appearance on concrete or block substrates which have been subjected to contamination, efflorescence or chemical attack.
- In all cases, consult the Safety Data Sheet before use.

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