



VANDEX CEMELAST

ELASTICIZED, CEMENTITIOUS WATERPROOF COATING**EUCLID CHEMICAL**

PACKAGING

Vandex Cemelast Liquid

2.6 gal (10 L) pail

Code: V013 05

Vandex BB 75 55 lb (25 kg) bag

Code: V004P 55

CLEAN UP

Clean tools and equipment with water before the material hardens.

SHELF LIFE

1 year in original, unopened package

DESCRIPTION

VANDEX CEMELAST is an elastic surface waterproof coating with hydrophobic properties. VANDEX CEMELAST is comprised of VANDEX CEMELAST LIQUID and VANDEX BB 75 powder. When the two are mixed together to create VANDEX CEMELAST, areas that are subject to cracking and minor movement can be easily waterproofed. Tested to over 50 feet (15 m) of hydrostatic pressure, VANDEX CEMELAST is suitable for horizontal and vertical/overhead uses. While resistant to water and moisture, VANDEX CEMELAST allows the structure to breathe by allowing the passage of vapor.

PRODUCT CHARACTERISTICS

FEATURES/BENEFITS

- Positive side waterproofing
- Elastomeric properties for cracked substrates
- Allows vapor to pass through substrate
- Perfect for vertical/overhead and horizontal surfaces

APPEARANCE

VANDEX CEMELAST is concrete gray in color

PRIMARY APPLICATIONS

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

COVERAGE

One mixed unit of VANDEX CEMELAST will cover approximately 109 ft² (10 m²) at 2 mm in thickness. Two coats are recommended for proper performance.

TECHNICAL INFORMATION

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

Test Method	Test Property	Results @70 °F and 50% RH
	Setting Time	2 to 4 hours
ASTM C109	Adhesive Strength	28 days 175 psi (1.2 MPa)
	Elongation at Rupture	Final. 13%
	Tear Resistance	Final. 130 psi (0.9 MPa)

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" (19 mm) depth or to sound material. No active water leaks should be present at the time of application of VANDEX CEMELAST. 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 should be dry, but slight dampness is acceptable prior to the application of the material.

Mixing: Place the entire contents of VANDEX CEMELAST LIQUID into a clean mixing pail. Slowly add the entire bag of VANDEX BB 75. Mix the material for at least 3 minutes with a drill and mixing paddle. In the event small amounts of VANDEX CEMELAST need to be mixed, mix at a ratio of 5.5 lbs (2.5 kg) of powder to 2 lbs (0.9 kg) of liquid.

Application: Brush or trowel: After the substrate has been prepared as described above, apply VANDEX CEMELAST from the bottom-up and work well into the substrate. Ensure that all cavities on the surface are filled. Apply the second layer 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. Apply 2 coats at 2 mm in thickness each. The entire coating is not to exceed 4 mm in thickness.

Spray: VANDEX CEMELAST may be applied using appropriate spray equipment with compressed air (i.e. hoppergun). For spray equipment, the recommended air pressure is approx. 73 psi (0.5 MPa) with a delivery rate of 18 ft³/minute (0.5 m³/minute), using a 1/4" (6 mm) nozzle diameter. The first layer of VANDEX CEMELAST 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 CEMELAST requires no curing procedures due to the enhancement from the VANDEX CEMELAST LIQUID. Take caution to shield the freshly placed material from extreme temperatures and wind. VANDEX CEMELAST 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 CEMELAST 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 CEMELAST 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 CEMELAST surface.

Filling of water retaining structures: Filling of VANDEX CEMELAST 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.

PRECAUTIONS/LIMITATIONS

- Do not apply to frozen or frost filled surfaces or when temperature is below or expected to fall below 40 °F (4 °C) within 48 hours.
- Protect treated surfaces from frost for 5 days.
- When applied to the inside of open cisterns, tanks, 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.

Rev. 12.24

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.