



VANDEX CEMELAST

ELASTICIZED WATERPROOF COATING

WATERPROOFING

VANDEX CEMELAST

MASTER FORMAT #: 030030071

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 15.24m 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.

PRIMARY APPLICATIONS

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

FEATURES / BENEFITS

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

TECHNICAL INFORMATION

Material Properties @ and 50% RH under laboratory conditions

Setting Time.....2 to 4 hours

Adhesive Strength

28 days.....1.20 MPa

VANDEX CEMELAST is concrete gray in color

Elongation at Rupture

final.....13%

Tear Resistance

final.....0.89 MPa

PACKAGING

VANDEX CEMELAST LIQUID is packaged in 9.84 L buckets. **VANDEX BB 75** is packaged in 22.7kg bags

SHELF LIFE

VANDEX CEMELAST LIQUID is good for 6 months in the original, unopened package. VANDEX BB 75 has a shelf life of 12 months in the original, unopened packaging.

COVERAGE

One mixed unit of VANDEX CEMELAST will cover approximately 33.22m² at 2mm in thickness. Two coats are recommended for proper performance

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 1.9cm depth or to sound material. No active water leaks should be present at the time of application of VANDEX CEMELAST. Use SPEED PLUG, VANDEX PLUG, or VANDEX SUPER mixed with VANDEX QUICKBINDER to stop all active leaks. Any surface defects need to be addressed with the application of VANDEX UNI MORTAR 1 ZSR. 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 24.94kg. of powder to 0.90kg 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 2mm in thickness each. The entire coating is not to exceed 4mm 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. 0.50MPa with a delivery rate of 500L/minute, using a 0.63cm 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.

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 4.44°C within 48 hours.
- Protect treated surfaces from frost for 5 days.
- Do not fill open cisterns, tanks, pools, etc. with water for at least 7 days. 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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