



VANDEX PLUG

RAPID-SETTING, CRYSTALLINE HYDRAULIC CEMENT

EUCLID CHEMICAL

WATERPROOFING

VANDEX PLUG

MASTER FORMAT #:
030030071

DESCRIPTION

VANDEX PLUG is a rapid-setting hydraulic cement compound with crystalline properties used to instantly stop running water or seepage in masonry or concrete. **VANDEX PLUG** is ready to use and requires only the addition of water before plugging and sealing active leaks within a minute. Once **VANDEX PLUG** has set and stopped the flowing water, additional Vandex waterproofing treatments can be immediately applied over the top of it.

PRIMARY APPLICATIONS

- Concrete pipe
- Swimming pools
- Foundations & basements
- Tunnels
- Dams & water reservoirs
- Manholes
- WTP & WWTP plants
- Culverts
- Spillways

FEATURES / BENEFITS

- Non-shrinking, non-metallic and non-corrosive
- Initial set in 45 seconds
- Instantly stops running water or seepage
- leaks
- Positive or negative side application
- Can be applied underwater

TECHNICAL INFORMATION

Material Properties @ 24°C

Test Method

Compressive Strength ASTM C 109 MPa

1 hour.....6.9

1 day.....10.3

28 days.....20.7

Flexural Strength ASTM C 348

7 days.....2.1

28 days.....2.4

Expansion/Shrinkage ASTM C 157

28 Day Test Chg. Length

Moist Room (100% RH).....0.10%

Dry Room (50% RH).....-0.25%

Appearance: VANDEX PLUG is a grey hydraulic cement compound.

PACKAGING

VANDEX PLUG is packaged in 22.7 kg buckets.

SHELF LIFE

1 year in original, unopened package

COVERAGE/YIELD

0.45 kg of **VANDEX PLUG** yields approximately 170ml and will repair approximately 1 kg for 155 cm of 2 cm x 2 cm crack.

DIRECTIONS FOR USE

Surface Preparation: Concrete surfaces must be structurally sound, free of loose or deteriorated concrete and free of dust, dirt, paint, efflorescence, oil and all other contaminants. Mechanically abrade the surface to achieve a surface profile equal to CSP >3 in accordance with ICRI Guideline 310.2. Properly clean profiled area.

Mixing: Pour potable water into a clean mixing container and gradually add VANDEX PLUG. Use approximately 946ml of water to 3.8 to 4.3 kg/L of material. Mix rapidly with a trowel to the consistency of stiff putty with no slump for no more than 20 seconds. VANDEX PLUG will flash set in 45 seconds. Properly mixed, VANDEX PLUG can be hand formed into a ball.

Application: Saturate, surface-dry (SSD) areas for repair with potable water immediately before application of VANDEX PLUG.

General Repairs: Force VANDEX PLUG into the crack or hole by hand or with a trowel. Rapidly fill to the full depth of the opening. **Patching Active Leaks:** Start at the top of the crack or hole, and force the VANDEX PLUG to the full depth of the prepared area. Apply direct pressure to the new patch until the VANDEX PLUG has taken a firm set. Mix fresh material, and continue patching toward the area of the greatest pressure. When extreme water pressure is encountered, physically hold the mixed VANDEX PLUG with a hand against the leak and apply continuous pressure until the VANDEX PLUG has set, and the water has stopped running. Do not use a twisting motion. **Floor-Wall Patching:** Follow above methods for the specific conditions encountered. Use a rounded tool to force the VANDEX PLUG into the joint, and construct a 45° transitional cove between the floor and wall at the same time. **Expansion/Contraction Cracks:** Do not use VANDEX PLUG to treat dynamic cracks. Consult the technical data sheets for the DURAL AQUA LINE of chemical/urethane grouts.

CLEAN UP

Clean tools and mixing equipment with water immediately after use

PRECAUTIONS / LIMITATIONS

- Do not apply VANDEX PLUG to frozen or frost filled surfaces.
- Do not twist VANDEX PLUG into the hole while plugging running water leaks.
- In warm weather, mix VANDEX PLUG with ice water. In cold weather, mix VANDEX PLUG with mildly warm water.
- Do not prewet in cold weather.
- Do not use in dynamic cracks or expansion joints. Use a chemical grout from the DURAL AQUA line.
- In all cases, consult the Safety Data Sheet before use

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