

VISCOTAQ® Waterproofing System Joint Seal for Precast Vaults & More

Product description

VISCOTAQ® is a non crystalline a-polar viscous elastic solid polyolefin for corrosion prevention and waterproofing of underground and aboveground substrates. VISCOTAQ'S® molecular chemistry is unique and designed in such a way that the viscosity gives it permanent wetting characteristics; forcing the material to flow into the pores and anomalies of the substrate. The elasticity of the product gives it the strength and feeling of a solid. The product bonds at a molecular level creating an impermeable homogeneous coating.

General information

VISCOTAQ® is designed to bond at a molecular level and create a waterproof seal, it can be used to seal vault sections, cracks, joints and more. A common application is to seal between prefab concrete sections (i.e. manholes, vaults). The VISCOTAQ® Joint Sealing System is based upon the use of the VISCOTAQ® VISCOPASTE and/or the VISCOTAQ® VISCOSEALANT in combination with the VISCOTAQ® VISCOWRAP. The system is applied to prevent water infiltration. VISCOTAQ® can be installed on new and existing structures.

Materials necessary

- VISCOTAQ® VISCOWRAP
- VISCOTAQ® VISCOPASTE
- VISCOTAQ® VISCOSEALANT

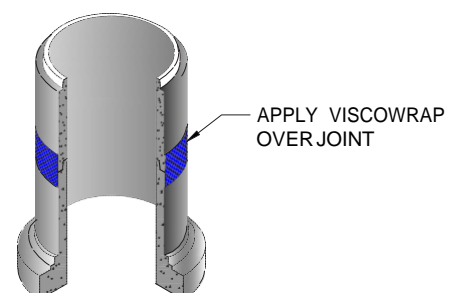
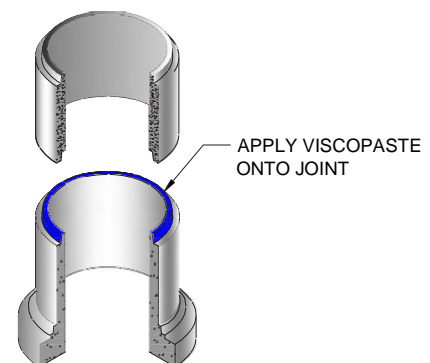
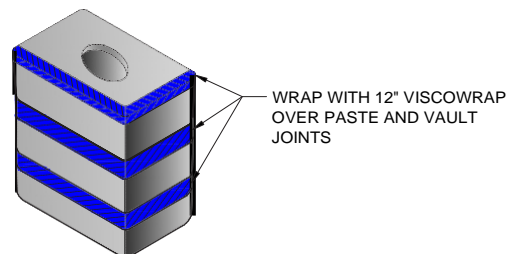
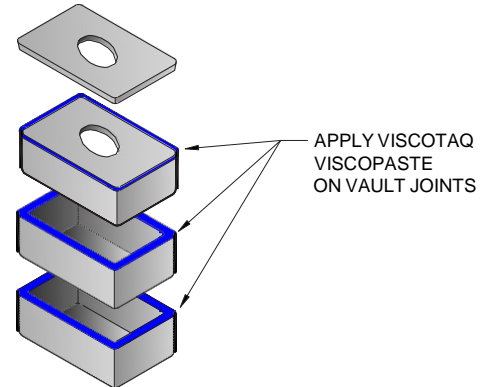
Surface preparation

- When applying to a concrete substrate extra precautions should be taken to ensure concrete is dry and clean.
- Existing damaged coating shall be removed before or as part of the surface preparation process. Surface where the VISCOTAQ® is to be applied shall be cleaned to a minimum of ST2/ SSPC-SP2 (Hand Tool Clean); however, where possible to ST3/SSPC-SP3 Power Tool Clean).
- Clean surface of any loose particles, dust, dirt or grease. This process can be completed by means of power washer.
- Compressed air can be used to dry the concrete substrate and to remove fi dirt and dust
- Clean all surfaces to be coated to Solvent Clean SSPC-SP1, using an Oil Free Solvent (Acetone, Denatured Alcohol or Isopropyl alcohol) to remove all mud, mill lacquer, wax, tar, oil, grease and other foreign particles.
- NOTE: Industrial grade citrus-based (d-Limonene) products are not approved for use as an oil free solvent. Heating of concrete may be needed to draw out any moisture in concrete substrate.
- Cleaned areas shall have protective coating applied before end of shift. If a cleaned surface does not get coated, it shall be re-cleaned on the next shift.
- Keep the working area clean and dry at all times. Avoid the presence of water.
- Regularly check to make sure the surface of the substrate is 40°F+ above the dew point.

VISCOTAQ® VISCOPASTE

VISCOTAQ® VISCOPASTE is to be applied between concrete sections during installation. The pressure of the sections will push the VISCOPASTE into place and create a seal. VISCOTAQ® VISCOPASTE is manufactured in multiple thicknesses and widths.

- VISCOTAQ® VISCOPASTE is applied by unrolling the coil and placing the product on the desired location of the substrate. On prefabricated vault sections, the VISCOPASTE shall be applied to an area of the substrate to create the maximum seal when the next section is attached.
- Once material is in place, apply slight pressure and remove release liner before applying material to the next section of



concrete. The weight of the structure should bond the paste to the concrete and provide a waterproof seal.

VISCOTAQ® VISCOSEALANT

VISCOTAQ® VISCOSEALANT can be used to seal cracks in existing concrete structures and as a substitute for the VISCOPASTE - if the new concrete structure sections are smooth and the sections are designed to form a tight fit where the gap is very small. (VISCOTAQ® VISCOPASTE is recommended for new prefab structures)

NOTE: Pneumatic applicator gun is strongly recommended.

NOTE: Heat sealant cartridges when applying in cold environments

Sealing existing cracks:

For hairline and other small cracks we recommend to increase the width of the crack to a minimum of 3/4" to ensure adequate surface area for the material to bond with the substrate. When filling large cracks a backer rod may be installed to decrease the depth of the fill area. If possible, make repair where positive pressure will be on the ViscoSealant.

- Chip out old and loose concrete to create a favorable surface to adhesion.
- Apply VISCOTAQ® VISCOSEALANT with an applicator gun, pushing the products into the crack as far as possible. Fill cracks minimum 1 inch deep and ensure there are no air pockets. Heating the VISCOSEALANT will decrease viscosity and help it flow into the cracks and voids.
- Smooth with putty knife.

When a crack to be sealed is in an area of negative pressure, the ViscoSealant should be covered/protected with a cementitious grout (Quickcrete or similar). A 1/2" of the crack should remain free of sealant to allow for cementitious material. For applications of positive pressure, use ViscoWrap as mentioned below.

Sealing joints of tightly fitting prefab structures:

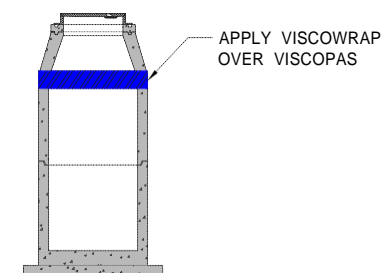
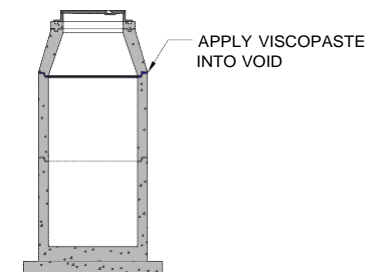
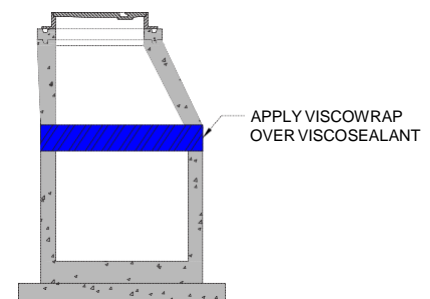
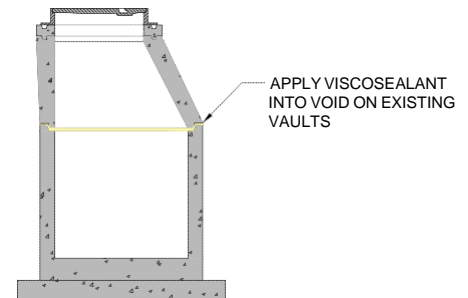
- Apply a significant amount of VISCOTAQ® VISCOSEALANT with an applicator gun to the smooth surface where the concrete sections join. Apply enough sealant to seal the area once the additional concrete section is installed.

VISCOTAQ® VISCOWRAP

VISCOTAQ® VISCOWRAP is to be applied onto the area where the VISCOPASTE or VISCOSEALANT has been applied with an overlap a minimum of a 2" on each side of sealed area.

- Remove the release liner and place the adhesive side onto the surface.
- Apply VISCOWRAP with as few air pockets as possible.
- Use a seam roller to add pressure to the VISCOWRAP to speed up the adhesion process and ensure the product is properly bonded.

*VISCOTAQ® EZ WRAP can be applied in place of the VISCOWRAP when surface must be coated/painted after sealing. Contact manufacturer for applications and topcoat recommendations.



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