

VISCOTAQ™ TANK CHIME SEALING SYSTEM



ViscotAQ™ is a visco-elastic synthetic material that remains flexible and tacky during its entire life. Since the floor plate of a tank is constantly moving during the filling and emptying process, flexibility and aggressive adhesion is of utmost importance. The ViscotAQ™ Tank Chime Sealing System is used to prevent water infiltration at the concrete ring wall interface of the tank, a place where corrosion normally occurs. The ViscotAQ™ Tank Chime Sealing System can be installed on new and existing facilities, can be painted immediately after installation and does not interfere with any future paint, inspection and maintenance programs according to API 653.

COMPOSITION

ViscotAQ™ is a non-crystalline, a-polar, viscous elastic (visco-elastic), solid-polyolefin coating 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 and the elasticity of the product provides the strength and feeling of a solid. The ViscotAQ compound bonds to the substrate by means of Van der Waals principles, penetrating the pores and anomalies of the substrate. The compound remains in intimate contact with the substrate creating an impermeable homogeneous waterproof seal.

FEATURES

- Easy to apply
- Cold applied
- Environmentally friendly
- No primers
- UV resistant
- Permanent flexibility
- Permanent adhesion
- SP 2 cleaning
- Long-term protection
- Non toxic
- Weather/salt resistant and freeze/thaw resistant
- Up to 160°F (higher temp. system available, contact us for more information)
- Moulds and forms easily
- Manufactured under ISO 9001 standards
- Made in the USA
- 70 mils - thick wrap
- Tested to latest ASTM and CSA standards



COMPONENTS

ViscotAQ™ ViscoSealant, Densyl Mastic, ViscotAQ™ ViscoMastic, ViscotAQ™ Adhesion Promoter or ViscoMastic XHT, and ViscotAQ™ EZ Wrap

Archco 15™ Water-Based Acrylic - Temperatures up to 150°F (65°C)

Archco 65™ Aliphatic Polyurethane - Temperatures up to 200°F (93°C)

METHOD OF APPLICATION

1. Surface Preparation:

The surface area to be coated should be inspected prior to coating; known defects must be documented and photographed prior to application.

- Any existing damaged coating shall be removed before or as part of the surface preparation process.
- Clean underneath the tank to a depth ≥ 2 " (5 cm). If a "felt base" is present under the tank, remove the felt where the ViscotAQ ViscoSealant is to be applied.
- The surface of the tank where the ViscotAQ is to be applied shall be cleaned to a minimum of St 2/SSPC-SP2 (Hand Tool Cleaned); however, where possible to St 3/SSPC-SP3 (Power Tool Cleaned).
- Power wash the application area to remove any loose particles.
- Dry the area where ViscotAQ is to be applied.
- Clean all surfaces to be coated to Solvent Clean SSPC-SP1, using an Oil Free Solvent (Acetone, Denatured Alcohol, and Isopropyl alcohol) to remove all mud, mill lacquer, wax, tar, oil, grease, or other foreign particles. **NOTE:** Industrial grade citrus-based (d-Limonene) products are not approved for use as an oil free solvent.

Cleaned areas shall have a protective coating applied before the end of the shift. If a cleaned surface does not get coated, it shall be re-cleaned on the next shift.

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2. Viscotaq™ ViscoSealant

NOTE: Pneumatic applicator gun is strongly recommended.

NOTE: Warm sealant cartridges when applying in cold environments.

Viscotaq ViscoSealant should be > 65°F (18°C) when applying.

- ViscoSealant shall be applied with an applicator gun at a minimum of 1" (2.5 cm) deep into the gap between the base of the tank and the ring wall.
- Use a putty knife when needed to smooth the product and to ensure material is packed into the gap. Apply with as few air pockets as possible.
- A backer should be used on tanks where the gap between the ring wall/base materials and the floor plate is $\geq 2"$ (5 cm).

Densyl Mastic, or Viscotaq™ ViscoMastic, or Viscotaq™ ViscoMastic XHT

- The appropriate mastic shall be applied by hand at a minimum of 1" (2.5 cm) deep into the gap between the base of the tank and the ring wall.
- Mold the product in place and create a 45° angle.
- A backer should be used on tanks where the gap between the ring wall/base materials and the floor plate is $\geq 2"$ (5 cm).

Viscotaq™ Adhesion Promoter

- Apply a thin uniform coat of Viscotaq Adhesion Promoter to the cleaned surface and allow it to tack dry.
- Apply tape to the areas where Viscotaq Adhesion Promoter has been applied only. Reapply area Promoter if the area becomes dirty or wet.

3. Viscotaq™ EZ Wrap

- Viscotaq EZ Wrap is applied by removing the release liner and placing the adhesive side onto the surface to be protected.
- Viscotaq EZ Wrap shall be started at the weld of the shell and the floor plate, also extended over the sealant onto the ring wall or base material.
- Extension of the floor plate from the weld where the shell connects should be $\geq 2"$ (5 cm) to ensure proper adhesion.
- If the floor plate does not extend 2" (5 cm) or greater from the shell, the Viscotaq EZ Wrap can be extended up the shell covering the weld.
- Once the Viscotaq EZ Wrap is applied to the floor plate, apply to the other side to the ring wall/base material.
- A minimum of 2" (5 cm) of Viscotaq EZ Wrap shall be applied onto the ring wall/base materials. (Viscotaq EZ Wrap is manufactured in different widths. When selecting materials make sure to choose a width wide enough to ensure a 2" (5 cm) overlap onto the ring wall/base materials).
- When applying Viscotaq EZ Wrap, remember that the tank can flex, therefore allow for movement.
- The Viscotaq EZ Wrap shall be gently smoothed by hand to ensure there are no wrinkles, folds, or entrapped air.
- Overlap Viscotaq EZ Wrap $\geq 1"$ (2.5 cm) when connecting rolls. When overlapping the Viscotaq EZ Wrap, one may cut slits in the product and alternate the overlap to improve adhesion. If a standard overlap is used (or for any area where overlapping Viscotaq EZ Wrap), add heat and pressure to make sure a proper bond is created between the Viscotaq EZ Wrap products. Use the heat and pressure to make sure the sealing compound is fully impregnated in the polyester backing of the Viscotaq EZ Wrap.
- Use a roller over the Viscotaq EZ Wrap to ensure that it has completely adhered to the substrate.
- Paint Viscotaq EZ Wrap with Archco 15™ topcoat to prevent any breakdown due to possible UV Rays as well as to add strength to the system. Paint should also prevent possible molding or fungus growth where the product might stay wet or moist. The Archco 15™ high-build flexible water-based acrylic topcoat is recommended for use for regular temperatures and the Archco 65™ high solids aliphatic polyurethane is recommended for high temperatures.

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