

Pipe, Conduit and Cable Penetrations

Viscotaq™ ViscoSealant can be used to provide a flexible seal around pipe and cable wall penetrations to prevent the infiltration of moisture or gases. The ViscoSealant will bond to virtually any substrate and can be used to seal penetrations that have multiple pipes or cables, even when wet. A backer is often used during application and a fire-retardant mortar can be applied if needed.

FEATURES

- Impermeable to moisture and gases
- Immediate adhesion to substrate / permanent wetting characteristics
- No primer needed
- Easy to apply, no mixing or messy clean-up
- Minimal surface preparation required (SP2-wire brush)
- Self-healing characteristics
- Inert material, no deterioration over time
- Resistant to aggressive soil conditions such as water, acid, salts, or soil organics
- Contains no solvents, no carcinogens, non-toxic, non-flammable
- Contains fire retardant materials and self-extinguishing
- UV resistant and never cracks or becomes brittle
- Flexible, pliable, conforms to irregular shapes easily
- Freeze / thaw resistant
- Thermal resistance -45°F to 160°F (-45°C to 71°C)
- Ability to fill voids and anomalies of substrate
- Meets NACE 0109:2019 & ISO 21809-3:2016

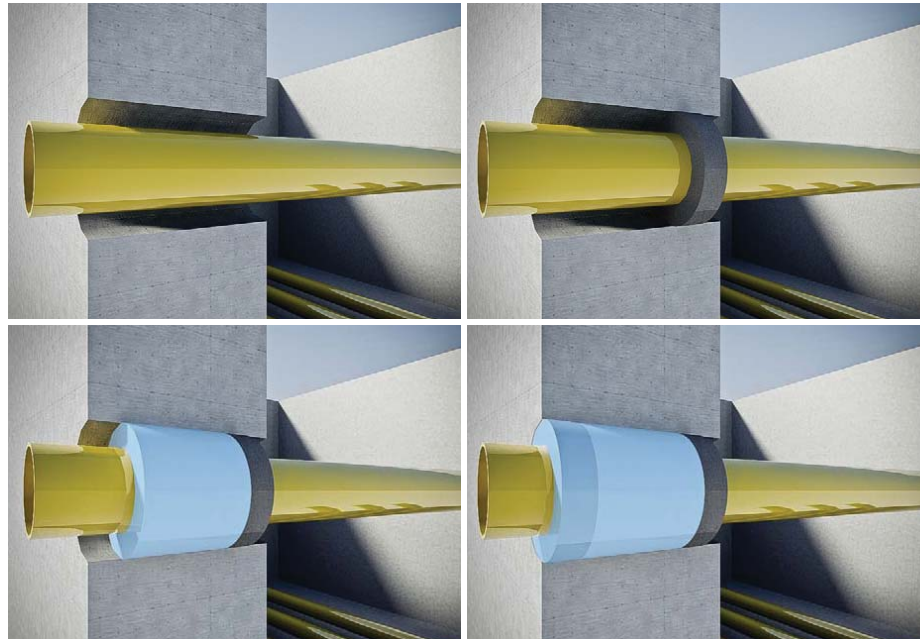
COMPONENTS

Select from table 3 and 4 of the Viscotaq Technical Manual the desired combination of products based on the design and/or operating temperature of the pipeline:

Viscotaq ViscoSealant™

Backing Material (backing foam/rod)

Fire Retardant Mortar (or reg. Mortar)



METHOD OF APPLICATION

1. Surface Preparation:

All surfaces shall be cleaned of mud, mill lacquer, wax, tar, oil, grease, or other foreign contaminants.

- Edges of the plant/existing coating shall be bevelled, and the plant coating shall be roughened over a minimum length of 6"/15 cm.
- Surface preparation may be carried out by a wire-brush cleaning to a minimum degree of cleanliness of ISO 8501-1, grade St 2 (SSPC SP 2), but preferably power brush cleaning, grade St 3 (SSPC SP 3 / SSPC SP11) or commercial blast-cleaning to a minimum degree of cleanliness of ISO 8501-1, grade Sa 2, SSPC 6.
- Dust contamination shall be grade 3 or better measured in accordance with ISO 8502-3. Remove any grease and dust with industrial alcohol (SP 1, solvent cleaning) using lint free wiping rags.
- All 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 shift.

If Preparing Concrete:

- Extra precautions should be taken to ensure concrete is dry and clean.
- Compressed air can be used to dry the concrete substrate and to remove fine dirt and dust.
- Heating of concrete may be needed to draw out any moisture in the pores of the concrete substrate.

An alternative peel test procedure is recommended prior to application. Please refer to the Viscotaq Technical Manual for full surface preparation and peel test requirements.

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VISCOTAQ™ WATERPROOFING SYSTEM

2. Positioning of Pipes and Cables

- Apply a backing inside the conduit to create a backstop for the ViscoSealant. The backing should be about 6"/15 cm from the opening of the pipe.
- Pipe and/or Cable should be centered as much as possible. In case of multiple pipes and cables, center, then separate the pipes and cables in such a way that a space exists of a minimum 1/2" or 1 cm between objects.
- Clean the pipe and cable again and make sure no loose particles exist.

3. Viscotaq ViscoSealant™

- Cut the top of the cartridge above the thread.
- Install the flexible nozzle onto the cartridge then install the cartridge into the gun.
- Install the ViscoSealant starting from the back of the conduit in the 6 o'clock position working the product from side to side.
- Work your way forward by caulking into the product itself. This prevents the forming of air pockets and keeps the ViscoSealant flowing around the cables/piping.
- When there are multiple pipes/cables, make sure product is applied between structures.

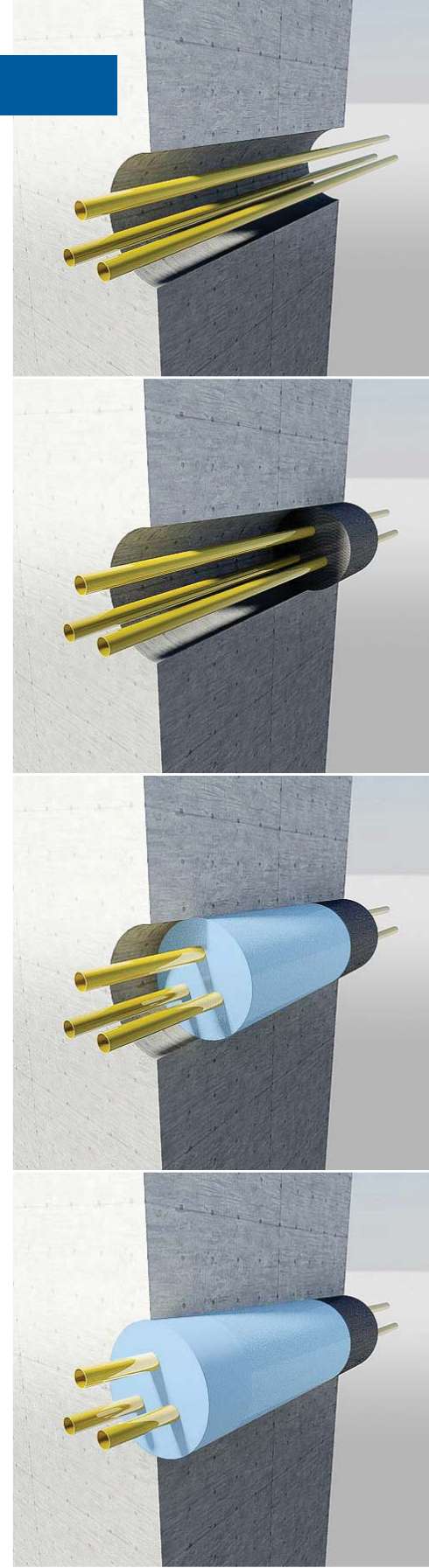
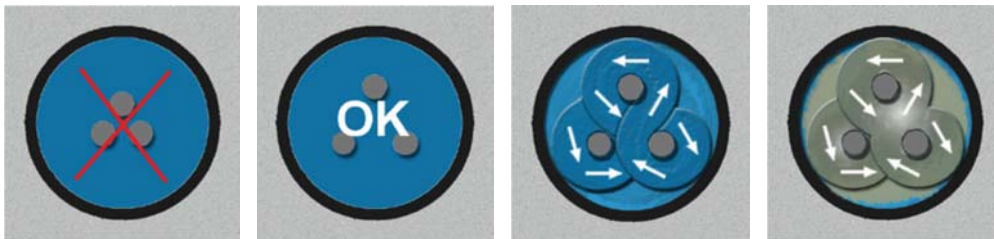
4. Finishing

- It is advised to always use a mortar or fire-retardant mortar in order to obtain a proper sealing against the pressure of water.
- If there is not a fire-retardant mortar, the injection of ViscoSealant is to be ended by making a smooth finish with a putty knife at the beginning of the conduit.
- When a mortar is used, leave a depth of 2"/5 cm at the beginning of the conduit free of ViscoSealant for the application of mortar.
- Mix a fire-retardant mortar or regular mortar according to the instructions and finish the mortar smoothly with a putty knife.

Multiple Cables or Pipes

Follow above procedure, ensure there is sufficient space between the cables and pipes for adequate filling (preferably 1/2"/1 cm).

*Please refer to the Viscotaq Technical Manual for inspection and testing.



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