

VISCOTAQ

Unique viscous-elastic technology



VISCOSEALANT

Viscous elastic paste for sealing and corrosion prevention

- 100% moisture and gas tight
- Universal application
- Adhesion to all materials
- Adhesion to wet surfaces
- Can be applied under water
- Remains plastic, does not cure, cracks nor becomes brittle

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kleiss & co b.v.



VISCOSEALANT®

General

Rain, ground water and water filtration can cause great damage to underground basements, constructions and installations if pipe and cable conduits are not watertight. The results can be devastating both in regard to repairing the structural problems and the indirect costs due to replacing damaged goods or personal property. Moreover the penetration of gases through these conduits can lead to dangerous and even explosive installations.

Existing methods for sealing holes, cracks, conduits may provide a good solution however they are not universal in their application and result in a wide range of plugs, joint rings, blocks, sealing rings in different sizes. Most of those materials need a "fit to size" storage, which is - from a logistical point of view - not very desirable and are sometimes only applicable in new constructions.

ViscoSealant

ViscoSealant is a unique and worldwide patented viscous elastic amorphous polyolefin for the sealing of pipe and cable conduits, openings, holes, splits, cavities, fissures, spaces and recesses. Once injected the material will create a permanent and stable water- and gastight sealing in all situations where underground facilities face water and gas filtration. ViscoSealant is a non-curing mastic that does not become brittle in the course of time. The material has remaining plastic properties over decades and will show a permanent adhesion in all situations. By injecting the material by means of a caulking gun into an existing leak even present water filtration problems can be solved.

Remarkable and excellent viscous elastic properties :

ViscoSealant is suitable for the sealing of all type of constructions where the penetration of water or gases is likely :

- Power supply cables
- Telecommunication cables and devices
- Gas and water pipes
- Waste water pipes
- Pump systems
- Tank bottom constructions
- Control cables and pipes for machinery
- Gas pipes in compressor stations
- Flange apertures
- Laboratories

ViscoSealant has an immediate adhesion to all substrates and materials, like concrete, polyethylene, polypropylene, PVC and steel. ViscoSealant can be applied on wet and dry surfaces and does not require intensive cleaning of the surface. Removal of loose materials, debris and grease normally is sufficient to get a good adhesion. ViscoSealant is 100% impermeable for water and gases and will give a gas and water tight sealing up to 1 meter/3.2 ft water column and up to 10 meter/33 ft. water column in combination with the fire retardant Viscotaq mortar.

ViscoSealant is made of a 100% inert material which means that pipe and cable casings, electrical wiring and conduits are not affected. Once applied the material has a lifespan of minimum 30 years. Due to its viscous-elastic behavior the material will absorb shocks and movements of cables, pipes and underground structures and its flexibility provides for permanent sealing characteristics. Due to the fact that the material does not cure new cables and pipes can be installed in a later stage and non active pipes and cables can always be removed.

ViscoSealant is available in 310 ml (10 oz.) and 1000 ml (34 oz.) plastic tubes. The tubes can be inserted in a manual, pneumatic or hydraulic caulking gun. Special accessories such as flexible nozzles and foam plugs make ViscoSealant sealant the most universal sealing system currently available on the market.

Corrosion preventive sealant

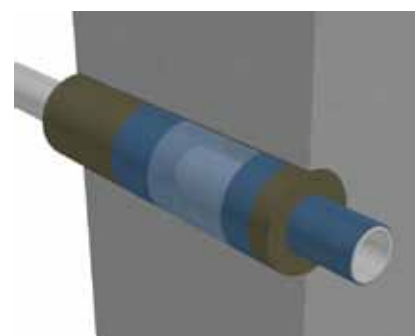
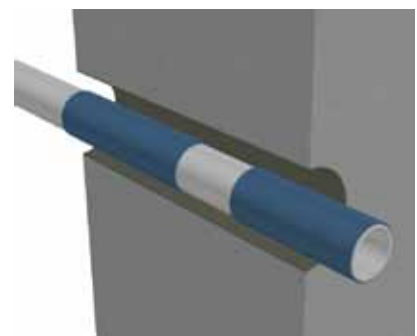
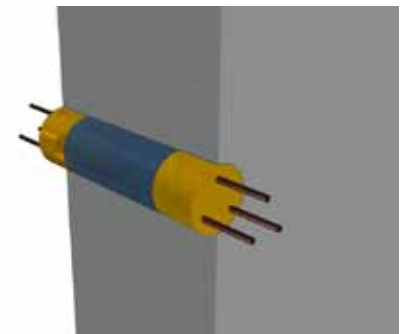
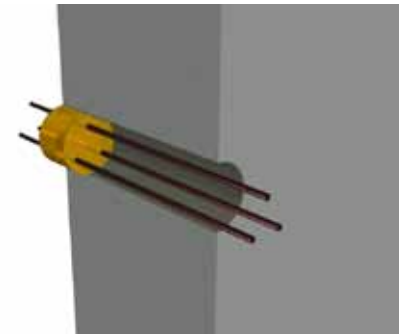
Besides as a water repellent sealant in conduits ViscoSealant can be used as a corrosion preventive viscous elastic sealant in all situations where openings, cavities and spaces need a protection against the corrosive influence of water, water vapor and gasses. ViscoSealant for instance will protect concrete constructions under tanks in tank farms, spaces between flanges in pipeline configurations, manhole covers and exposed structures. Due to its 100% impermeability to water and oxygen, the immediate adhesion of the material to any substrate and its self healing characteristics the material will give a permanent corrosion prevention in many situations.

Properties and Advantages :

- Universal sealing and corrosion preventive compound : no need for storage of large numbers of plugs, joint rings et cetera in different sizes.
- Fast and easy installation
- Application on wet surfaces
- Can be applied under water
- Immediate adhesion to all substrate materials : plastics, steel, concrete et cetera
- Self healing characteristics
- Remaining plastic properties
- Remaining flexibility
- Does not cure, nor becomes brittle
- 100% water and gastight
- 100% inert : does not affect the casings of pipes and cables
- Non toxic
- Cold application
- Sealing up to 10 meter/33 ft. water column
- Can be applied in arctic as well as hot ambient conditions.
- Unlimited shelf life

Technical data

Operating temperature	: -30° C/-22° F up to 50° C/122° F
Application temperature	: above +5° C/41° F
Color	: white
Density	: 1.4 g/cm3
Viscosity	: semi solid
Ph	: neutral
Shelf life	: unlimited
Vapor density	: 0
Vapor pressure at 20 C	: 0
Flash point	: >190° C/374° F
Solvability in water	: insolvable
Chemical resistance	: high
Shrinkage	: none
Skin irritation	: none
Eye irritation	: none
Inert	: Yes



Standard application

1. Remove grease, debris and loose parts from the conduit to be sealed.
2. Cut the sharp head from the plastic tube and insert the tube into the caulking gun.
3. When injecting ViscoSealant in an idle conduit it is preferred to create a partition in the conduit about 15 cm/6" from the beginning of the conduit. This can be done with parts of foam or soft rubber.
4. Start injecting the ViscoSealant into the opening with the caulking gun. Start at the end at the partition and move slowly forward to the front. The pressure will automatically move the gun forward.
5. Keep on injecting the ViscoSealant until a body has been created with a minimum length of 15 cm/6".
6. Seal the opening over a length of 5 cm/2" with the Viscotaq fire retardant mortar.
7. Smoothen the surface.

For all applications we advise you to consult our application manual.

Delivery program

1. ViscoSealant 310 ml (10 oz.) tube
2. ViscoSealant 1000 ml (30 oz.) tube
3. Manual caulking gun 310 ml (10 oz.)
4. Manual caulking gun 1000 ml (30 oz.)
5. Pneumatic caulking gun 1000 ml
6. Viscotaq fire retardant mortar
7. Viscotaq foam tape
8. Viscotaq EZ-Wrap (for specifications, see other brochure)





Clean the surface thoroughly
Ensure the surface is free from Funghi, Algeae, by using a bleach solution.



Clean the surface thoroughly
Use isopropyl alcohol for grease, or oil. Remove any dirt, cement, loose paint or other. Clean with water afterwards.



VPreparation of materials
Preheat the cartridges in warm water or warm the cartridges to 25° C / 77° F. Ensure usage of a professional applicator gun with a minimum trust ratio 1:12.



Spacing
Create space between 2 cables, pipe and secure this by placing for instance foam backer, rubber or other. Place the foam 15 cm/6 inch deep.



Create Backer
Wrap Foam Backer around pipe(s). When adhesive is present, leave release paper on for the first wrap to enable pushing the backer backwards.



Distance Backer 3 inch
Push the backer 15 cm/ 6 inches deep into the conduit/lead through/dilatation joint.



Preparing Cartridge
Cut off the front piece of the cartridge in a straight angle. Leave sufficient screw thread.



Preparing Nozzle
Cut off a sufficient part from the nozzle in a 45 degree angle. A larger opening creates an easier application.



Preparing the applicator gun
Pull the lever and unscrew the cap in the front.



Loading the applicator gun

Attach the nozzle, load the cartridge. Make sure the right plunger is attached on the gun. Screw the cap back on.



Inject starting from back and bottom

Apply the Viscotaq starting from the back of the conduit from side to side. This on the 6 o'clock position.



Work your way forward

Work your way forward by caulking into the product itself. This prevents any air pockets and keeps the sealant flowing around irregular shapes.



In between cables/pipes

Ensure product is placed in between cables and pipes in case of multiple cable/pipe entries.



Complete the filling

Now complete the filling and ensure there are no air pockets.



Smoothen with putty knife

Smoothen the seal with a putty knife. Check for any areas where air pockets may exist.



Finished Result

The VISCOTAQ creates an immediate seal and back fill can be done immediately.

Maximum water pressure at +25° C/+ 77° F is 1m/3 ft of water table. At +10° C/+50° F maximum water pressure is 1,5 m/5 feet.

In case more water pressure is expected, apply minimum 1 inch of cementitious grout in front of the sealant. This on the dry side.

Temperature range after application with mortar: -30° C/-22° F through + 50° C/ +122° F. Reports available upon request.

Materials are non toxic and safe to use. MSDS sheets available upon request.

VISCOTAQ ORDER SPECIFICATIONS

Product Code	Article no.	Description	Units per box	Weight box kg	Number of boxes	Weight pallet kg
SA4240	850 00 010	Viscowrap ST 2" x 10m (=32,8 ft)	12	18.1	48	900
SA4230	850 00 011	Viscowrap ST 4" x 10m (=32,8 ft)	6	18.1	48	900
SA4260	850 00 012	Viscowrap ST 6" x 10m (=32,8 ft)	4	15.9	54	890
SA4270	850 00 013	Viscowrap ST 8" x 10m (=32,8 ft)	4	20.4	45	950
SA4280	850 00 017	Viscowrap ST 8" x 20m (=65,6 ft)	2	25.0	36	930
SA4250	850 00 029	Viscowrap HT 2" x 5m (=16,4 ft)	24	19.1	45	890
SA4240HT	850 00 030	Viscowrap HT 2" x 10m (=32,8 ft)	12	18.1	48	900
SA4230HT	850 00 031	Viscowrap HT 4" x 10m (=32,8 ft)	6	18.1	48	900
SA4260HT	850 00 032	Viscowrap HT 6" x 10m (=32,8 ft)	4	15.9	54	890
SA4280HT	850 00 033	Viscowrap HT 8" x 10m (=32,8 ft)	4	20.4	45	950
SA4280HT	850 00 037	Viscowrap HT 8" x 20m (=65,6 ft)	2	25.0	36	930
SA2105	852 00 010	ViscoSealant 310 ml (= 10,0 oz.)	25	13.6	64	900
SA2110	852 00 011	ViscoSealant 400 ml (=13,5 oz)	25	14.2	64	935
SA4210EU	852 00 012	ViscoSealant 1000 ml (=34,0 oz.)	9	15.9	56	920
SA4208	851 00 010	ViscoPaste ST 30mm x 37mm x 3m (roll)	5	25.0	36	930
SA4208HT	851 00 020	ViscoPaste HT 30mm x 37mm x 3m (roll)	5	25.0	36	930
SA2162	850 00 080	EZ-Wrap 2" x 24 ft	12	15.0	45	705
SA2164	850 00 081	EZ-Wrap 4" x 24 ft	8	15.0	45	705
SA2166	850 00 082	EZ-Wrap 6" x 24 ft	4	22.2	36	830
SA2168	850 00 083	EZ-Wrap 8" x 24 ft	4	15.0	45	705
SA21610	850 00 084	EZ-Wrap 10" x 24 ft	4	20.4	36	764
SA21612	850 00 086	EZ-Wrap 12"x 24 ft	2	22.2	36	830
SA9002	853 00 010	Viscotaq PVC Outerwrap 50mm x 30m	24	29	11	319
SA9003	853 00 011	Viscotaq PVC Outerwrap 75mm x 30m	18	29	11	319
SA9004	853 00 012	Viscotaq PVC Outerwrap 100mm x 30m	12	29	12	348
SA5030	853 00 020	Viscotaq PE Outerwrap 50mm x 30m	24	17	36	609
SA7530	853 00 021	Viscotaq PE Outerwrap 75mm x 30m	16	17	36	609
SA1030	853 00 022	Viscotaq PE Outerwrap 100mm x 30m	12	17	36	609

p.s. 1 kilogram = 2,20462 lbs.



Scheepmakersstraat 17, 3334 KG Zwijndrecht
Postbus 253, 3330 AG Zwijndrecht
Nederland
Tel +31-78-629.13.13, Fax +31-78-629.13.14
Email: info@kleiss.nl, web www.kleiss.nl