AEROSANA VISCONN®

Sprayable frost- and moisture-resistant sealant, humidity-variable, blue/black



Technical data

	Material
Sealant	Modified aqueous acrylate polymer dispersion

Property	Regulation	Value
Colour		Dark blue, when fully dry: dark blue/black
Surface weight	EN 1849-2	290 g/m² ; 0.95 oz/ft² (dried, at 0.3 mm ; 13 mil thickness)
Coating application		0.2 - 1.0 mm ; 8 - 39 mil - wet film
sd value	EN 1931	6 m (at 0.3 mm ; 13 mil thickness)
sd value, humidity-variable	EN ISO 12572	0.13 - 10.00 m
g value	EN 1931	30 MN·s/g (at 0.3 mm ; 13 mil thickness)
g value, humidity-variable	EN ISO 12572	0.65 - 50 MN·s/g
Vapour permeance	ASTM E96-A	0.55 perms (at 0.3 mm ; 13 mil thickness)
Vapour permeance, humidity-variable	EN ISO 12572	0.33 - 25 perms
Reaction to fire classification	EN 13501-1	E
Outdoor exposure		3 months
Resistance to driving rain	ift, MO-01/1:2007-01, Abs. 5	Up to 600 Pa, around windows
Watertightness to liquid water	EN 1928	W1
Water column	EN ISO 811	2 000 mm ; 6' 7"
Airtightness	ift, MO-01/1:2007-01, Abs. 5	Up to 1000 Pa, around windows
Airtightness	ASTM E2178	
Can be plastered/ painted over		Yes, and pro clima tapes adhere to it
Durability after artificial ageing		Passed
Application temperature		+5 °C to +60 °C; 40 °F to 140 °F (also applies to substrate temperature)
Drying		Approx. 12 - 48 hours (at 20 °C ; 68 °F, 65% rel. humidity), depending on substrate and applied thickness
Temperature resistance, permanent		-40 °C to +90 °C ; -40 °F to +194 °F (dried)
Coverage		Approx. 1.33 m²/l ; 0.42 ft²/US fl oz (0.75 l/m² ; 2.36 US fl oz/ft²), depending on substrate and application method
Storage		-15 °C to +25 °C ; 5 °F to 77 °F, closed in an airtight manner
Passive House Certification	Passivhaus Institut	phA

Areas of application

For use as a humidity-variable vapour control and airtightness layer that can be applied as a spray or using a brush on wall, ceiling and floor surfaces, such as non-plastered masonry or porous panel-form materials.

- Also for sealing transitions to components such as windows, roofs, walls, ceilings and floors, and for panel joints on airtight wood-based panels (e.g. OSB).
- Can also be used for stabilising and strengthening surfaces on renovation projects.
- The humidity-variable diffusion resistance of this product means that it can be used on the interior or exterior of building structures.
- Forms a seamless, elastic airtight and vapour-controlling protective layer once it has dried.

Supply forms

Art. no.	Variant	Contents	Coverage	Weight	Sales unit	Container	GTIN
1AR05168	Bucket	10 l	~ 13.3 m² (140 ft²)	10.848 kg	1	44	4026639251688
1AR02612	Foil cartridge	0.6 l	~ 0.8 m² (8.5 ft²)	0.63 kg	12	720	4026639226129

Advantages

- ✔ Quick and versatile to apply: by airless sprayer, AEROFIXX (compressed air) or brush
- ✔ Reliable structures thanks to excellent adhesive properties on all standard construction surfaces
- ✔ Covers cracks and joints of up to 3 mm (⅛") width. Larger joints can also be covered in combination with AEROSANA FLEECE.
- ✔ Creates robust building structures: moisture-resistant, permanently elastic and highly durable once it has dried
- ✔ Improves surfaces: forms a bonding course between subsurfaces and subsequent coatings
- ✔ Can be plastered/painted over, and pro clima adhesive tapes can be applied over it
- ✔ For airtight sealing in accordance with DIN 4108-7, SIA 180 and RE 2020
- ✔ Flexible use in indoor and protected outdoor areas thanks to its humidity-variable s_d or g or perm value
- ✔ Excellent values in hazardous substance testing, has been tested according to the ISO 16000 evaluation scheme

Substrates

Before application, check whether the subsurface is suitable for application of a liquid film. It may be necessary to apply a number of coats in the case of uneven or textured subsurfaces. Gaps (pieces broken out of the subsurface) or significant unevenness may need to be covered using AEROSANA FLEECE, taped over before application (e.g. with one of the CONTEGA SOLIDO tapes, depending on requirements) or levelled off with filler.

Subsurfaces should be cleaned.
The subsurface and air temperatures should be above +5 °C (+40 °F) for application. There must be no water-repellent substances (e.g. grease or silicone) on surfaces to be coated. Subsurfaces must be sufficiently dry and stable. Application is possible on moist, but not wet subsurfaces.

The liquid film adheres to all standard construction materials, e.g. mineral subsurfaces such as concrete and masonry (e.g. sand-lime bricks, other bricks, aerated concrete, pumice). It is permissible for concrete or plaster subsurfaces to be sandy or crumbling to a small extent. Application is also possible to all pro clima membranes (note: SOLITEX ADHERO VISTO needs to be pre-treated with TESCON SPRIMER) and to membranes made of PE, PA, PP and aluminium, to unplaned, planed or painted wood, wood-based panels (chipboard, OSB, plywood, MDF and wood-fibre underlay panels), non-rusting metal subsurfaces and hard plastics (e.g. pipes, windows). AEROSANA VISCONN does not adhere to the TESCON RAPIC rapid-application adhesive tape; cover TESCON RAPIC with a compatible adhesive tape (e.g. TESCON VANA) before applying liquid sealant.

Movement joints cannot be sealed due to the relative motion that can be expected. Transitions such as floor-wall joints are to be coated with the required minimum layer thickness (500 µm; 20 mils for wet application) along their entire lengths in the area to be sealed. Implement butt joints, such as valley areas with wood-fibre underlay panels, using AEROSANA FLEECE. If membranes (e.g. INTELLO) are to be sealed in an airtight manner, these should be stapled in place in the usual manner or else fixed in place using a suitable adhesive tape (e.g. TESCON VANA). The transition must be free of tension.

Protect adjacent materials/surfaces
Materials/surfaces adjacent to the areas to be coated should be protected; this applies particularly to visible surfaces such as wood, glass, ceramics, clinker bricks, natural stone, paint/varnish and metal. Wash away any splashes immediately with copious amounts of water. Do not wait until they have hardened. Clean tools with water immediately after use. Collect the water used for washing and dispose of it in accordance with the locally applicable regulations - e.g. European waste code: 080416.

General conditions

Cracks that are wider than 3 mm (⅛") must be taped over, covered with AEROSANA FLEECE or filled in with a suitable filler. Spraying should be carried out at a distance of approx. 15 cm (8") from the subsurface. Application in a number of layers can be carried out without any need for drying periods between them. Perfect airtightness can only be achieved with a seamless AEROSANA VISCONN film with no gaps. Linear joints: The best coverage is achieved when spraying is carried out in two layers. The spraying jet should be directed at an angle of approx. 60° to the subsurface, spraying away from the installer. The second spraying step should then be carried out in the opposite direction.
Sealing of surface areas: The best coverage is achieved when one layer is first sprayed on horizontally and then sprayed over vertically in a cross pattern.

AEROFIXX application
The AEROFIXX device is connected to a compressor with a suction flow rate of >300 l/min. The pressure should be set to 6 bar (87 psi). All AEROSANA VISCONN variants in 600 ml (20.3 US fl oz) foil cartridges can be applied using the AEROFIXX device. You can easily switch between line (bead) application and spray application by turning the spray head.

Airless application

Airless diaphragm or piston pumps can be used. The throughput of this equipment should not be less than 1.8 litres/min (60 US fl oz/min). The recommended nozzles are: for surface application: 317 to 521; for detail features: 210. The first digit of the nozzle designation specifies the spray angle in degrees (x 10°); the second and third digits represent the diameter of the nozzle in 0.0xx inches. The pressure is set to ensure a uniform spray finish that is free of streaks. If streaks are visible beside the spray area, increase the spray pressure. If this does not help, clean or replace the filter. The optimal pressure is around 80-150 bar (1200 – 2200 psi), depending on the nozzle used. A mesh size of 60 is recommended for the pistol filter. Stir the sealant slowly and uniformly before spraying it. Flush the airless device once with clear water and then empty it fully before putting it into service.
AEROSANA VISCONN FIBRE and AEROSANA VISCONN FIBRE white cannot be applied using airless sprayers; with them, use the AEROFIXX application gun.

Layer thickness and drying

The required minimum layer thickness of 500 µm (20 mils) has been achieved when a seamless, slightly wavy surface ('orange peel') is formed on the surface of AEROSANA VISCONN during the spraying process. Cracks and pores in the subsurface must be covered or closed in order to achieve seamless airtightness.

This can be done using AEROSANA VISCONN for cracks/pores up to 3 mm (⅛"), with AEROSANA VISCONN FIBRE up to 8 mm ($^{5}/_{16}$") by spraying or flooding. The thickness should be checked using a measuring gauge at various points across the entire sprayed surface immediately after the last layer of AEROSANA VISCONN has been applied.

AEROSANA VISCONN changes colour from blue to black when it dries. AEROSANA VISCONN white does not change colour.
The wet film is to be protected against moisture (e.g. rain) until it has fully dried.
Immediately after the spraying work has been completed, the airless device should be cleaned on the outside with water and flushed a number of times until the flushing water is no longer visibly turbid – completely remove any residues of AEROSANA VISCONN. For additional information (e.g. operating instructions), contact the manufacturer of the airless device.

Protective equipment

The air pressure raises airborne dust. For this reason, it is recommended that installers should wear personal protective equipment consisting of a mask, protective glasses and gloves, even in well-ventilated locations.

Application with a brush

All AEROSANA VISCONN variants can be applied using a brush. To ensure efficient working, the width of the brush should be ≥ 50 mm (2"). Check the minimum layer thickness of 500 µm (20 mils) using a measuring gauge.

Storage

If this product has been in storage for a longer period, water (~5%) can be mixed into it to achieve a consistency that is suitable for spraying. Do not dilute the sealant too much (risk of excessive flow and poor coverage of cracks). Closing the container in an airtight manner and also covering over the sealant with a thin film will help to prevent drying out.

The applications and conditions described here are based on current research findings and practical experience. We reserve the right to change the recommended application designs and installation methods and to develop and thus change the properties and quality of individual products. We would be glad to inform you about the current state of engineering knowledge at the time that your installation is carried out.

The planning documentation that is available from pro clima provides further information about installation methods and design details. If you have questions, please contact pro clima Technical Support in Germany at +49 6202 278245.

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