

AEROSANA VISCONN

Sprayable airtightness sealant with humidity-variable water vapour permeability, blue/black



Technical data

Substance		
Component	modified aqueous acrylate polymer dispersion	
Property	Regulation	Value
Colour		dark blue, when fully dry dark blue/black
Surface weight	EN 1849-2	approx. 200 g/m ² ; 0.66 oz/ft ² (dried), depending on subsurface and applied thickness
Coating application		0.2 - 1.0 mm ; 8 - 39 mils - wet film
sd value	EN 1931	6 m (at 0.3 mm thickness)
sd value, humidity variable	EN ISO 12572	0.13 - 10.00 m
g value		30 MN-s/g (at 0.3 mm thickness)
g value, humidity variable		0.65 - 50 MN-s/g
Vapour permeance	ASTM E96-A	0.9 US perms (at 0.3 mm ; 12 mils thickness)
Vapour permeance, humidity variable	EN ISO 12572	0.33 - 25 US perms
Fire rating	EN 13501-1	E
Outdoor exposure		3 months
Water column	EN ISO 811	2 000 mm ; 6' 7"
Water tightness to liquid water	EN 1928	W1
Resistance to driving rain	ift, MO-01/1:2007-01, Abs. 5	up to 600 Pa, surrounding
Airtightness	ift, MO-01/1:2007-01, Abs. 5	up to 1000 Pa, surrounding
Can be plastered/painted over		yes, and pro clima adhesive tapes can be stuck onto it
Durability after artificial ageing		passed
Application temperature		5 °C to 60 °C ; 40 °F to 140 °F
Temperature resistance		permanent -40 °C to +90 °C ; -40 °F to +194 °F (dried)
Coverage		approx. 750 ml/m ² ; 2.46 oz/ft ² , depending on applied thickness (1 l \approx 1 kg)
Drying		approx. 12 - 48 hours (at 20 °C, 65% rel. humidity) depending on subsurface and applied thickness
Storage		5 °C to 25 °C ; 41 °F to 77 °F, closed in an airtight manner



Application

For use as a humidity-variable vapour check and airtight 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 the creation of joints 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 strengthening subsurfaces in the case of renovation.
- ✓ The humidity-variable diffusion resistance of this product means that it can be used on the interior and exterior of building components.
- ✓ The sprayed-on liquid film forms a seamless, elastic air-retarding and vapour-checking protective layer once it has dried.
- ✓ Forms a seamless, elastic airtight and vapour-checking protective layer once it has dried.

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Advantages

- ✓ Time-saving and can be applied in versatile ways: Spraying with an airless sprayer or AEROFIXX (compressed air), paint on.
- ✓ Reliable structures thanks to excellent adhesive properties on all standard construction surfaces
- ✓ Covers cracks and joints of up to 3 mm (1/8") width. Larger joints can also be covered in combination with AEROSANA FLEECE.
- ✓ For robust building components: permanent elasticity and high durability once it has dried
- ✓ Improves surfaces: forms a bonding course between subsurfaces and subsequent coatings
- ✓ Can be plastered/painted over, pro clima adhesive tapes can be stuck onto it
- ✓ Flexible use in indoor and protected outdoor areas thanks to its humidity-variable s_d 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 a liquid film. It may be necessary to apply a number of coats in the case of uneven or shaped subsurfaces. Gaps (pieces broken out of the subsurface) or significant unevenness may need to be closed using AEROSANA FLEECE, stuck over before application (e.g. with one of the CONTEGA SOLIDO adhesive tapes, depending on requirements) or levelled off with filler.

Subsurfaces should be cleaned.

Application temperature above +5 °C (+40 °F) subsurface and air temperature.

There must be no water-repellent substances (e.g. grease or silicone) on materials to be coated. Subsurfaces must be sufficiently dry and stable.

Application to moist, but not wet subsurfaces is possible.

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). Concrete or plaster subsurfaces may be sandy or crumbling to a small extent.

Can also be applied to all pro clima membranes, membranes made of PE, PA, PP and aluminium, to planed and 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).

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 wet application) along their entire lengths in the area to be sealed.

Implement butt joints, such as valley areas for wood fibre underlay panels, together with AEROSANA FLEECE.

If films (e.g. pro clima INTELLO) are to be sealed in an airtight manner, these should be fixed in place using a suitable adhesive tape (e.g. TESCON VANA or CONTEGA SOLIDO SL). The transition must be free of tension.

Protect adjacent materials/surfaces Materials/surfaces beside 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 official regulations - european wast code 080416.



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General conditions

Cracks that are wider than 3 mm (1/8") must be stuck over, covered with AEROSANA FLEECE or filled.

The best coverage is achieved when one layer is first sprayed on horizontally and then sprayed over vertically in a cross pattern. Perfect airtightness can only be achieved with a sealed AEROSANA VISCONN film.

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 oz/min). The recommended nozzles are: 210, 317, 519.

The first digit of the nozzle designation specifies the spray angle $\times 10^\circ$, the second and third digits represent the diameter of the nozzle in 0.0xx inches. Applications with detail features are sprayed using a 210 nozzle, while broad surface applications are carried out using a 519 nozzle.

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 material slowly and uniformly before spraying it. Flush the airless device once with clear water and then empty it fully before putting it into service.

Layer thickness and drying

Spraying should be carried out at a distance of approx. 20 cm (7.9") from the subsurface. The best coverage is achieved when one layer is first sprayed on horizontally and then sprayed over vertically in a cross pattern. Application in a number of layers can be carried out without any need for drying periods between them. The required minimum layer thickness of 500 μm (20 mils) has been achieved when a seamless, slightly wavy, but non-running surface ('orange peel') is formed on the surface of AEROSANA VISCONN during the spraying process. Cracks and pores (up to 3 mm ; 1/8") in the subsurface must be closed with AEROSANA VISCONN by spraying over / flooding them to achieve perfect airtightness.

The thickness should be checked at various points across the entire sprayed surface using the measuring gauge 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 moist film is to be protected against additional moisture (e.g. rain) until it has fully dried.

Immediately after the spraying work has been completed, the airless device is to 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

If spraying is to be carried out at poorly ventilated locations, wear personal protective equipment consisting of a mask, protective glasses and gloves.

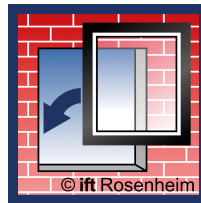
Application with a brush

All AEROSANA VISCONN products 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 material too much (risk of excessive flow and poor coverage of cracks). Closing the container in an airtight manner and covering it with a thin sheet will help to prevent drying out.

Tested for hazardous substances according to



Prüfbericht Nr. 18-004115-PR01
(PB 1-E03-020310-de-02)
- AEROSANA VISCONN
nach MO-01/1:2007-01, Abs. 5
21.08.2019



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