

Aquaswell

Revision: 06/01/2020

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Technical data

Basis	Polyurethane
Consistency	Stable paste
Curing system	Moisture Curing (air humidity)
Skin formation	120 min
Curing speed *	1,8 mm / 24h
Hardness**	20 +/-5 Shore A
Density	1.37 g/ml
Elasticity modulus 100% (ISO 37)**	0.34 N/mm ²
Max. tension (ISO 37)**	0.60 N/mm ²
Elongation at break (ISO 37)**	> 800 %
E-modulus 100% in joint (ISO 8339)	0.12 N/mm ²
Max tension in joint (ISO 8339)	0.20 N/mm ²
Elongation at Break in joint (ISO 839)	250 %
Temperature resistance**	-30 °C → 90 °C
Shrinkage	< 5 %

* These values may vary depending on environmental factors such as temperature, moisture, and type of substrates. ** This information relates to fully cured product.

Product description

Aquaswell is a high quality, elastic, 1-component sealant based on polyurethane. Swells in contact with water. Designed for the water- and gastight sealing around cable or pipe penetrations and the watertight sealing of joints in concrete and prefabricated elements. Able to bond bentonite swelling strips to rough surfaces.

Properties

- Water- and gastight until 5 bar (DVGW VP-601)
- Excellent adhesion on a wide range of construction materials both in interior and exterior applications
- Permanently elastic after curing
- Easy application on both vertical and horizontal surfaces.
- Swells up to 450% of its original volume, under constant water load. After 24 hours it swells to 200%, after 72 hours to 300% of its original volume.
- Returns to its original shape when the water contact is cleared.
- Solvent free

Applications

- Water- and gastight sealing of most pipes in gas-, water- and cable ducts.
- Watertight sealing of construction joints in concrete and prefabricated elements.
- Watertight sealing of joints in building and construction.
- Adhesion of bentonite swelling tapes on rough surfaces.

Packaging

Colour: champagne

Packaging: 310 ml alu cartridge, 600 ml foil bag

Shelf life

Cartridges: 9 months Foil bags: 12 months If stored in an unopened packaging and stored in a cool and dry place at temperatures between +5°C and +25°C.

Substrates

Substrates: concrete, metals, PVC, No adhesion on glass, PE, PP, PTFE and bituminous surfaces.

Nature: clean, free of dust and grease.

Surface preparation: No pretreatment required.

Remark: This technical data sheet replaces all previous versions. The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications which are out of our control, we cannot accept any responsibility for the results obtained. Since the design, the quality of the substrate and processing conditions are beyond our control, no liability under this publication is accepted. In every case it is recommended to carry out preliminary experiments. Soudal reserves the right to modify products without prior notice.

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Application method

Application method: Fill the throughput on both sides at least 1 cm in width and at least 5 cm in depth with Aquaswell. With manual- or pneumatic caulking gun. Use joint fillers if necessary. In the case of large/deep penetrations, wrap a PU joint filler (backing rod) centrally around the pipe. If there is a large gap between the drilled hole and the throughput, more product will be needed. For example: with a 120 mm hole and a 60 mm pipe diameter, 4 cartridges and 1 joint filler are required to guarantee a watertight seal. For a 80 mm hole and 60 mm pipe diameter, 1 cartridge is sufficient. The width of the applied seal may never exceed the depth. Always work sufficiently deep in larger openings. Optionally, finish the sealant with a soapy solution immediately after application.

Cleaning: Aquaswell can be removed from tools and material with Soudal Surface Cleaner, White Spirit or Swipex, before curing.

Repair: With the same material.

Health- and Safety Recommendations

Take the usual labour hygiene into account. Consult label and material safety data sheet for more information.

Remarks

- Given the great diversity of possible surfaces, it is recommended to perform an adhesion test on both substrates prior to application.
- If the tubes are placed in lukewarm water before use, the extrudability and final adhesion will improve.

Standards and certificates

- Aquaswell complies with the LEED requirements v4.1 IEQ Credit 4.1 - Low Emitting Materials regarding the VOC content evaluation. Aquaswell complies with the VOC limits as described in SCAQMD regulation 1168 (2017).
- VOC-content < 50 g/L

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