

AQUASWELL

Revision: 01/04/2024

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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.

Description:

Aquaswell is a high-quality, elastic, one-component sealant based on polyurethane. Swells in contact with water. Designed for the water- and gas-tight 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 gas tight 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 gas tight 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: 310ml alu cartridge, 600 ml foilbag

Shelf life and storage:

Cartridges: 9 months Foil bags: 12 months If stored in an unopened packaging and stored in a cool and

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dry place at temperatures between +5°C and +25°C.

Health and Safety Recommendation:

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

Joint Dimensions:

Min. width for joints: 5mm
Max. width for joints: 30mm
Min. depth for joints: 5mm
Recommendation sealing jobs: joint width = 2x joint depth

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

Application Method:

Application method: Fill the through put on both sides at least 1 cm in width and at least 5 cm in depth with Aquaswell. Use a 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 an 80 mm hole and a 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.

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 luke warm 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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