SOUDAL

Technical datasheet

Aquaswell

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)
- Very good adhesion on many materials
- For interior use
- For exterior use
- Permanently elastic after curing
- Easy to apply
- 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.

Technical data

Base		Polyurethane
Consistency		Stable paste
Curing system		Moisture curing
Skin formation		ca. 120 minutes
Curing speed		ca. 1.8 mm/24h
Density		ca. 1.37 g/ml
Elasticity modulus	ISO 37	ca. 0.34 N/mm²
Elongation at break	ISO 37	> 800 %
Maximum tension	ISO 37	ca. 0.60 N/mm²
Hardness		20 ± 5 Shore A
Temperature resistance		-30°C → +90°C

Footnote: Skinning time and curing speed may vary depending on environmental factors such as temperature, moisture, and type of substrates.

Substrates

- Substrate condition
  Clean, free of dust and grease.

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- Substrate preparation
  No pretreatment required.
- Substrate types
  Aquaswell has a good adhesion to following substrates: concrete, metal, PVC, etc.. Aquaswell has no good adhesion or is not suitable for PE, PP, PTFE (Teflon®), glass, bituminous substrates. We recommend a preliminary adhesion and compatibility test on every surface.

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 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.
- Application tools
  With a manual, pneumatic or battery caulking gun.
- Cleaning method
  Clean with White Spirit or Soudal Surface Cleaner immediately after use (before curing).
- Finishing method
  With Finishing Solution before skinning.
- Repair method
  Repair with the same material.

Health- and Safety Recommendations

Take the usual labour hygiene into account. Consult the packaging label and safety data sheet for more information.
Keep the area well ventilated during use and curing of the product.
Dangerous. Respect the precautions for use.

Packaging/Logistics

Colour: Please consult the product catalogue, the Soudal website or a Soudal representative.
Packaging: Please consult the product catalogue, the Soudal website or a Soudal representative.
Shelf life: Cartridges: 9 months, Foil bags: 12 months If stored in an unopened packaging and stored in a cool and dry place at tempratrures between +5°C and +25°C., Once opened the product has only a limited shelf life.

Environmental clausules

- Leed regulation: Aquaswell conforms to the requirements of LEED. Low –Emitting Materials: Adhesives and Sealants. SCAQMD rule 1168. Complies with USGBC LEED 2009 Credit 4.1: Low-Emitting Materials – Adhesives & Sealants concerning the VOC-content.

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.

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