
SOUDAL AQUASWELL

Date: 03/09/2014**Page 1 of 2****Technical Data:**

Base	Polyurethane
Consistency	Stable Paste
Curing System	Moisture Cure
Skin formation (*)	120 minutes
Curing Rate (*)	1.8mm/24h
Hardness	15 Shore A
Shrinkage	Max. 4%
Specific Gravity	1.37 g/mL
Temperature Resistance	-30°C to +90°C
Elasticity Modulus in film (DIN 53504)	0.34 N/mm ²
Slump	None
Tear Strength in film (DIN 53504)	Ca. 0.60 N/mm ²
Elongation at Break in film (DIN 53504)	>800%
Elasticity Modulus in joint (ISO 839)	Ca. 0.12 N/mm ²
Tear Strength in joint (ISO 839)	Ca. 0.20 N/mm ²
Elongation at Break in joint (ISO 839)	>250%

(*) these values may vary depending on environmental factors such as temperature, moisture, and type of substrates.

Product:

Soudal Aquaswell is a high quality, one component polyurethane sealant which swells up in contact with water to create a water- and gastight seal in pipe- and cable penetrations.

Characteristics:

- Water- and gastight up to 5 bar (DVGW VP-601).
- Very good adhesion on concrete and many metals, PVC.
- Very easy application on both horizontal and vertical substrates.
- Swells up to 450% of its original volume in contact with water.
- Stays elastic after curing.
- Returns to its original shape after swelling.

Applications:

- Water sealing pipe- and cable penetrations.
- Water sealing concrete joints.
- Bonding of water swelling water stop tape onto rough surfaces.

Packaging:

Colour: champagne

Packaging: alu cartridge 310mL, sausages 600mL

Shelflife:

Cartridges: 9 months

Foil bags: 12 months

in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°

Surfaces:

Type: concrete, most metals, PVC. Not suitable for PE, PP, PTFE, glass and bituminous substrates.

State of Surface: clean, free of dust and grease.

Surfaces may be humid.

Preparation: no Primer required

We recommend a preliminary adhesion test with all surfaces.

Remark: 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. In every case it is recommended to carry out preliminary experiments.

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Application:

Method: caulking gun. Apply backing rods when required.

Cut the nozzle at 5cm of its base to achieve the correct depth of the seal. Fill the penetration in the concrete structure on each side minimum 1cm wide and to 5cm deep using Soudal Aquaswell, according to the application table. For large penetrations PU backing rods should be wrapped around the pipe in the centre of the concrete structure according to the application table. Optionally, finish the sealant with a soapy solution immediately after application.

Diameter borehole (in mm)	80	100	120
Pipe diameter (in mm)			
52	1 cartridge + 1 backer rod	1 cartridge + 1 backer rod	4 cartridges + 2 backer rods
60	1 cartridge + 0 backer rod	1 cartridge + 1 backer rod	4 cartridges + 1 backer rod
85		1 cartridge + 0 backer rod	2 cartridges + 1 backer rod

*Indicated consumption volumes may vary due to irregularities of the adhesion surface and/or irregularities in sealant application.

Application temperature: +1°C to +30°C

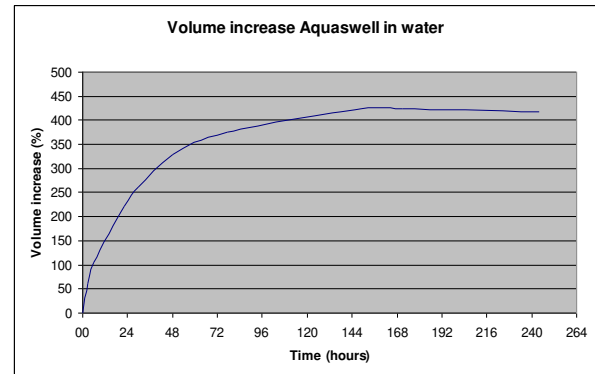
Clean: with white spirit immediately after use.

Finishing (optional): with a soapy solution or Soudal Finishing Solution before skin formation.

Repair: with the same product.

Swelling Characteristics

Sealant bead extruded with triangular nozzle, fully immersed in water at 23°C.



- Volume increase after 24 hours: 150-200%
- Volume increase after 72 hours: 300%
- Volume increase after 144 hours: 400-450%

Health- and Safety Recommendation:

Apply the usual industrial hygiene.

Remarks:

In order to ensure the correct performance of the product, Soudal recommends a preliminary adhesion test.

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