Technical datasheet

Soudagum Hydro

Product description

Soudagum Hydro is a one-component, solvent-free watertight sealing product for horizontal and vertical applications.



Properties

- Ready to use
- Low viscosity
- Free of solvents and isocyanate
- Good workability
- Vapour permeable
- Good temperature resistance
- Rain resistant, 2 hours after application
- Crack-bridging
- Excellent resistance to many chemicals
- Limited UV-resistant
- Can be painted

Applications

- Sealing of skylights, dome lights, pipe collars, wall breakthroughs, ...
- Sealing of cracks in roofs and walls
- Sealing of indoor and outdoor joints
- Short term repairs of metal and plastic roof gutters and drainage
- Short term repair and renovation of rooftops (pans, slats, zinc), roof edges and chimney flashings
- For protection and renovation of wood constructions such as verandas, terraces, garden poles, underground garden wood...
- Sealing of flower boxes and the outside of fountains and water ornaments
- Not recommended for applications which are permanently immersed in water or permanently exposed to UV / direct sunlight

Technical data

Base		Silane terminated SMX polymer
Consistency		Liquid paste
Curing system		Moisture curing
Skin formation		20 - 40 minutes
Drying time		Ca. 3 hours
Density		Ca. 1.51 g/ml
Tensile strength (longitudinal)	ISO 37	1.0 - 1.2 N/mm²
Hardness	EN ISO 868	25-30 Shore A
Loss of volume	ISO 10563	< 3%
Consumption		Ca. 1.40 kg/m² (1 mm) to 2.0 kg/m² (2 mm layer thickness)
Elongation at Fmax	ISO 37	> 250%
Application temperature		5°C → 40°C

Soudal NV
Everdongenlaan 18 - 20, B-2300 Turnhout
+32 (0)14.42.42.31
www.soudal.com info@soudal.com

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Temperature resistance	-40°C → +80°C
User load	P2

Footnote: These values may vary depending on environmental factors such as temperature, moisture, and type of substrates.

Substrates

- Substrate condition
  Flat, load-bearing, clean, dry or slightly damp, dust, grease and rust free.
- Substrate preparation
  Remove all traces of loose existing coating material. Soudagum Hydro can be used without primer on moist substrates but not in the presence of stagnant water. A preliminary adhesion test on every substrate is recommended.
- Substrate types
  Soudagum Hydro has a good adhesion to following substrates: steel, polycarbonate, wood, glass, ceramic, aluminium, concrete, ABS, screed, zinc. Adhesive breakage on PVC, Polyester, Styrofoam. Adheres to bitumen but discolours. Due to the many types of bitumen, compatibility cannot be guaranteed, hence the use of Soudal Primer 300 is required. Given the wide variety of EPDM-substrates, a preliminary adhesion test is required.

Application method

- Application method
  Stir Soudagum Hydro in the container before using. Apply by roller or brush in 2 layers to a thickness of 2 mm. The second layer cannot be applied until the first has dried completely (± 3h, 23°C and 50% RH). After ± 12h (23°C, 50% RH) the treated surface will be dry and follow-up work can begin. Be aware that different environmental factors can influence the drying time. Connection and expansion joints must be properly dimensioned in order to achieve optimal performance. Suitable backing material is essential (foamed polyethylene). For optimal elastic characteristics of the sealant 2:1 or 1:1 width/depth ratio of the joint is suggested (minimal joint width: 6 mm; maximal joint width: 20 mm). Soudagum Hydro can be used for temporarily emergency repairs to seal a leak up to 2mm wide instantly, even while it's wet/raining. Remove all dirt and loose residues from the area around the leak and apply a coat of Soudagum Hydro to the cracked area. For larger cracks or leaks, use Soudatextile. Repair the leak thoroughly within 1 month.
- Cleaning method
  Uncured Soudagum Hydro can be removed from substrates and tools with Soudal Surface Cleaner or Soudal Swipex. After curing, only mechanically removable.
- 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.
Use only in well-ventilated areas.
Do not smoke.

Packaging/Logistics

Colour: Grey
Packaging: 5kg and 10kg buckets
Shelf life: 12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C

Remarks

- The membrane can be reinforced with Soudatextile, used between two coats. Soudatextile should be buried in the first coat while it is still wet. The reinforcement overlaps must be 3 – 5 cm.

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- Reinforcement for internal and external corners or vents must be prepared by cutting shaped reinforcement pieces out of the Soudatextile. The reinforcement of the edges, corners or breakthroughs must be buried in the first layer of membrane before the application of the reinforcement on the main horizontal or vertical surface. The second layer can be applied on the fresh coating if the first coating has been reinforced.

This technical data sheet replaces al 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. It is general in nature and does not constitute any liability. 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. It is the responsibility of the user to determine by his own tests whether the product is suitable for the application. In every case it is recommended to carry out preliminary experiments. The manufacturer reserves the right to modify products without prior notice.

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