

Soudatight WP

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Technical data

Basis		Hybrid Polymer
Consistency		Liquid paste
Curing system		Moisture curing
Skin formation* (23°C/50% R.H.)		Ca. 30 min
Hardness	ISO 868	Ca. 29 Shore A
Density		Ca. 1,51 g/ml
Viscosity (Brookfield)		Ca. 75.000 mPa.s
Max. tension (ISO 37)**		≥ 1,30 N/mm ²
Elasticity modulus 100%	ISO 37	≥ 0,50 N/mm ²
Elongation at break	ISO 37	> 500 %
Curing time*		3h (1 mm)
Consumption*		Approx. 2.0 kg/m ² (at 2 mm layer thickness)
Air permeability coefficient (in joint)	EN 12114	a ≤ 0,1 m ³ /[h.m.(daPa)n]
Impermeability to driving rain (in a joint)	EN 1027	≥ 600 Pa
Water vapor permeability (Sd)	EN ISO 12572	2,05 m
Water vapor diffusion resistance factor (μ)	EN ISO 12572	1025
Temperature resistance**		-40 °C → 80 °C
Application temperature		5 °C → 40 °C

* 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

Soudatight WP is a high-quality hybrid polymer paste which, after curing, forms a seamless, air and water tight elastic membrane. Soudatight WP is used as a detail sealant in all construction areas and is particularly suitable for the waterproofing of window-floor connections.

Properties

- 1-component system ready for use
- Watertight
- Airtight
- Vapor permeable
- Rainproof after 2 hours
- For outdoor use (indoor use also possible)
- Excellent resistance to UV radiation
- Elastic and crack-bridging
- Stays elastic after curing and very durable
- EC-1 Plus label: very low emission
- Forms a seamless membrane
- Good adhesion on slightly moist substrates

- Good adhesion on slightly dusty substrates
- Can be painted, plastered or taped after drying
- Free of solvents and isocyanate
- Excellent chemical resistance
- Low odour

Applications

For watertight finishing of:

- Window-to-floor connections as with terraces and balconies
- Plinth connections, foundation (above ground)
- The reveal area in insulated precast concrete panels
- Connection joints between precast concrete elements in cellar construction
- The secondary water barrier/drainage (e.g. under the window sill)

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Packaging

Colour: grey*Packaging:* 5 kg (1 alu-bag in bucket), 10 kg (2 alu-bags in bucket)

Shelf life

At least 12 months in unopened packaging in a dry storage place at temperatures between +5 °C and +25 °C.

Substrates

Substrates: All usual building substrates. All kinds of concrete, masonry and stone. The materials used by window manufacturers such as PVC, aluminium and wood. Compatible with most types of EPDM. 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.

Nature: Clean and free of grease. Slightly moist or slightly dusty substrates are no problem.

Surface preparation: Remove loose parts of the surface (eg. PU foam) and make the surface clean (using a brush). Non-porous substrates, such as aluminum, PVC and especially powder coated surfaces should be degreased and if necessary (structure lacquer) subject to a pre-treatment with Soudal Surface Activator (watch out for staining). Pre-treat bituminous substrates with Primer 300. A preliminary adhesion test on every surface is recommended.

Joint dimensions

Gaps or seals with minimal movement up to 6 mm. Cracks, joint or gaps > 6 mm can be filled (with e.g. Flexifoam) or closed with Soudatextile in combination with Soudatight WP.

Application method

It is strongly recommended that Soudatight WP is brought to room temperature before use, otherwise its processing properties may be adversely affected. Soudatight WP is applied

directly from the packaging onto the surface using flat brush. Apply the coating undiluted and even by means of a (flat) brush into a seamless film of at least 1 mm thick (1/2 to 2/3 of the total layer thickness). Then place Soudatextile in the still wet layer. By doing so, avoid wrinkles and air inclusions and press Soudatextile firmly into the wet layer by means of a brush or a putty knife. Several pieces of fleece should overlap by 3-5 cm. Cut out reinforcements for inner and outer corners or penetrations in advance and place them directly into the wet layer before placing the long surface pieces. Finally, apply a new coat of product (1/2 to 1/3 of the total layer thickness) over Soudatextile, preferably on each side 1 cm wider than the fleece to avoid Soudatextile hanging loose. The total layer thickness should be at least 2 mm. The application thickness must be measured (wet) using a wet film comb. The use of masking tape (on the window frame) is recommended. This should, however, be removed shortly after the application of Soudatight WP, before curing.

Cleaning: Soudatight WP 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 the label for more information.

Remarks

- Soudatight WP should not be diluted.
- Not suitable for dilatation or expansion joints unless in combination with Soudatextile.
- Soudatight WP may be painted, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application. The drying time of alkyd resin based paints may increase.

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- Soudatight WP is not suitable for sealing against pressurized or (long-term)stagnant water.

Standards and certificates

- HFA test report - System test: flooding-test of window-to-floor connections according to Richtlinie Bauwerksabdichtung - Teil 2 Ausführung.
- Soudatight WP meets GEV EMI CODE EC1 PLUS: very low emission.
- MFPA test report - Water vapour permeability (μ and Sd) according to EN ISO 12572

Environmental clauses

Lead regulation:

Soudatight WP 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.

Liability

The content of this technical data sheet is the result of tests, monitoring and experience. It is general in nature and does not constitute any liability. It is the responsibility of the user to determine by his own tests whether the product is suitable for the application.

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