

Soudatight Hybrid

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Technical data

Basis		Hybrid Polymer
Consistency		Paste
Curing system		Chemical curing
Skin formation* (23°C/50% R.H.)		Ca. 120 min
Density		Ca. 1,53 g/ml
Viscosity (Brookfield)		59.000 mPa.s → 75.000 mPa.s
Elongation at break	ISO 37	> 350 %
Drying time (23°C and 50% R.H.)		Ca. 24 h
Consumption*		Approx. 1.5 kg/m ² (1 mm layer thickness) ~ 6 m/foilbag (10 cm wide)
Fire reaction class	EN 13501-1	Class E (normal flammability)
Air permeability coefficient (in joint)	EN 12114	a ≤ 0,1 m ³ /(h.m.(daPa)n) c ~ 0 dm ³ /(s.(Pa)n)
Impermeability to driving rain (in a joint)	EN 1027	≥ 600 Pa
UV light and weather stability		≤ 24 months
Water vapor permeability (Sd)	EN ISO 12572	1,40 m
Water vapor diffusion resistance factor (μ)	EN ISO 12572	1464
Temperature resistance**		-40 °C → 90 °C
Application temperature		5 °C → 30 °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 Hybrid is a high-quality hybrid polymer paste which, after curing, forms a seamless, air and water tight elastic membrane. Soudatight Hybrid has been developed for use in façade applications.

Properties

- Driving rain tight
- Airtight
- Vapor permeable
- For outdoor use (indoor use also possible)
- Stays elastic after curing and very durable
- 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
- EC-1 Plus label: very low emission

Applications

For air- and watertight finishing of above-ground:

- Penetration seals
- Connections
- Surfaces (no roof applications)
- The secondary water barrier/drainage (e.g. under the window sill)
- Window connections:
 - inside inner leaf (reveal area)
 - outside inner leaf (prior to application of the facade insulation)
 - under the window (or door) sill
 - outside massive walls
 - outside ventilated facades

Packaging

Colour: grey

Packaging: 600 ml foil bag, 6 kg bucket

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Shelf life

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

bucket = 9 months

foil bag = 15 months

Substrates

Substrates: all usual building substrates, Not suitable for bitumen, glass, PE, PTFE and PP.

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). 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 Hybrid.

Application method

It is strongly recommended that Soudatight Hybrid is brought to room temperature before use, otherwise its processing properties may be adversely affected. Soudatight Hybrid is applied directly from the packaging onto the surface using a flat brush or caulking gun (hand, battery or pneumatic). Apply the coating undiluted and even by means of a (flat) brush into a seamless film of at least 1 mm thick, to be applied in several layers. Soudatight Hybrid can also be applied using a pneumatic spray gun (Cox Jetflow 3 Sachet 600) as a bead or sprayed as a coating. By turning the nozzle one has the choice between bead and spray

application (spraying = more open = less product applied). When using the Cox Jetflow 3 spraying is optimal at 5 to 6 bar and the nozzle for +/-75 % open. After spraying always smooth with a (flat) brush and respect the minimum layer thickness. The application thickness must be measured (wet) using a wet film comb. For window applications, ensure that the air- and watertightness paste forms a seamless membrane of at least 10 mm on the window frame, over the flexible foam to ± 5 cm on the reveal area (outside) of the structural work. The use of masking tape (on the window frame) is recommended. This should, however, be removed shortly after the application of Soudatight Hybrid, before curing. For other connections, ensure that Soudatight Hybrid forms a seamless membrane over the joint with a minimum width of 3 cm on both sides of the joint.

Cleaning: Soudatight Hybrid 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 Hybrid should not be diluted.
- After curing and trimming Flexifoam, Soudatight Hybrid can immediately be applied where with other PU foams it's necessary to wait 24h to 48h after trimming before applying Soudatight Hybrid.
- Not suitable for dilatation or expansion joints unless in combination with Soudatextile.
- Soudatight Hybrid 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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Standards and certificates

- EC-1 PLUS label: very low emission
- IFT-report 16-001592-PR01: Determination of the water-vapor-permeability-properties of Soudatight Hybrid.
- MO-01/1 Bauteilprüfung (System test: air- and driving rain-tightness of a sealing between window and wall) - (IFT Rosenheim)
- Air permeability (c-value) according to EN 12114 (in conformity with BRL 2804-1) determined by SKG-IKOB, Geldermalsen

Environmental clauses*Leed regulation:*

Soudatight Hybrid 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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