

# Soudatight Hybrid

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## Technical data

Basis		Hybrid Polymer
Consistency		Paste
Curing system		Chemical curing
Shore A (75°F (23°C) / 50% R.H.)	ASTM D 2240	Ca. 47
Tack-free time (75°F (23°C) / 50% R.H.)		Ca. 120 min
Tensile Strength	ASTM D 412	> 220 psi
Elongation at break	ASTM D 412	> 350 %
Final cure (75°F (23°C) / 50% R.H.)		Ca. 24 h
Yield*		Per 20 fl.oz. sausage: approx. 21 sq. ft (20 mils thickness) approx. 12 sq. ft. (35 mils thickness)
Water penetration resistance around nails / screws	ASTM D1970 (modified section 7.9)	Pass
Crack bridging ability	ASTM C1305, (10 cycles @ - 15 °F)	Pass
Fire reaction class	EN 13501-1	Class E (normal flammability)
Air permeability coefficient (in joint)	EN 12114	$a \leq 0,1 \text{ m}^3/[\text{h.m.}(\text{daPa})\text{n}]$ $c \sim 0 \text{ dm}^3/(\text{s.}(\text{Pa})\text{n})$
Impermeability to driving rain (in a joint)	EN 1027	$\geq 600 \text{ Pa}$
UV light and weather stability		$\leq 24 \text{ months}$
Perm rate (Water Vapor Permeance)	ASTM E96	10.43 Perms (20 mils thickness) 5.96 Perms (35 mils thickness)
Temperature resistance**		-40 °F → 194 °F (-40 °C → 90 °C)
Application temperature		41 °F → 100 °F (5 °C → 38 °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 watertight elastic membrane. Soudatight Hybrid has been developed for use in façade applications.

- 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

## Properties

- Driving rain tight
- Airtight
- Vapor permeable
- For outdoor use (indoor use also possible)
- Stays elastic after curing and very durable

## Applications

For air- and watertight finishing of above-ground:

- Rough openings
- Penetration seals

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- Connections
- Surfaces (no roof applications)
- 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
  - flanged windows (nail fin)
    - covering/sealing of the sill pan
    - covering of the nail fin itself

## Packaging

*Colour:* grey

*Packaging:* 20 fl.oz. (600ml) foil bag,  
1.03-gal. (6 kg) bucket

## Shelf life

At least 12 months in unopened packaging in a dry storage place at temperatures between 41°F and 77°F (+5 °C and +25 °C).

## 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 (e.g. 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. A preliminary adhesion test on every surface is recommended.

## Joint dimensions

Gaps or seals with minimal movement up to ¼". Cracks, joint or gaps > ¼" can be filled with flexible PU foam (e.g. Soudafoam Flex) 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 airtight coating undiluted and even by means of a (flat) brush into a seamless film of at least 20 mils thick for smooth surfaces and 35 mils for rough surfaces. 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 72 to 87 psi (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 0.4 inch on the window frame, over the flexible foam to ± 2 inch 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 1 inch 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.

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### Stucco Application over Soudatight Hybrid

Broadcast clean and uncontaminated silica sand, immediately after application into the wet Soudatight Hybrid membrane (before skin formation), to the point of refusal. Allow Soudatight Hybrid with sand to cure completely (at least 48hrs) before application of stucco. The stucco system should be placed according to the manufacturer's instructions, if a primer is recommended it should also be used.

### 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 Soudafoam Flex, Soudatight Hybrid can immediately be applied where with other PU foams it's necessary to wait 24 to 48hrs 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.

### Standards and certificates

- GEV EMICODE: EC-1 PLUS - very low emission
- Dallas Laboratories, Inc: passes AAMA 714-19 standard
- Intertek (US): US Perm - Water vapor transmission evaluation acc. to ASTM E96
- IFT Rosenheim (DE): System test, air- and driving rain-tightness of a sealing between window and wall acc. to MO-01/1 Bauteilprüfung
- SKG-IKOB (NL): Air permeability (c-value) acc. to EN 12114 (in conformity with BRL 2804-1)

### 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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