



# Soudatight LQ

## Product description

Soudatight LQ is a high-quality water-based fibre-reinforced polymer paste which, after drying, forms a seamless, airtight and vapour-retardant elastic membrane.

## Properties

- Airtight
- Vapour retardant
- Certified Passive House Component (pH A)
- Fibre-reinforced making it suitable for crack bridging up to 5 mm
- Stays elastic after curing and very durable
- Forms a seamless membrane
- Good adhesion on many porous materials
- Good adhesion on slightly moist substrates
- Good adhesion on slightly dusty substrates
- Can be painted, plastered or taped after drying
- Very low emission, EC1+ certified
- Ecobau certified: eco-1 label



## Applications

- For airtight and vapour retardant finishing of
  - Penetration seals
  - Seams, gaps, cracks and holes
  - Wall-floor connections
  - Wall-ceiling connections
  - Wall-wall connections
  - Window connections:
    - Inside inner leaf (reveal area)
    - Outside inner leaf (prior to application of the facade insulation)

## Technical data

Base	Fibre-reinforced synthetic dispersion	
Consistency	Paste	
Curing system	Physical drying	
Skin formation	ca. 60 minutes	
Drying time	ca. 24 - 48 hours	
Density	ca. 1.15 g/ml	
Viscosity	140.000 mPa.s → 190.000 mPa.s	
Elongation at break	ISO 37	> 50 %
Air permeability coefficient (a)	EN 12114	$a \leq 0,1 \text{ m}^2/(\text{h.m.}(\text{daPa})\text{n})$
Air permeability coefficient (c)	EN 12114	$c \sim 0 \text{ dm}^2/(\text{s.}(\text{Pa})\text{n})$



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UV light and weather stability		> 3 months
Fire reaction class	EN 13501-1	E (normal flammability)
Water vapour diffusion resistance factor ( $\mu$ )	EN ISO 12572	37500
Consumption		500 - 1000 g/m <sup>2</sup> , depending on the substrate
Water vapour permeability (Sd)	EN ISO 12572	37,50 m
Application temperature		5°C → 45°C
Temperature resistance		-20°C → +80°C

Footnote: Skinning time and curing speed may vary depending on environmental factors such as temperature, moisture, and type of substrates.

## Substrates

- Substrate condition  
Clean, free of dust and grease. Slightly moist or slightly dusty substrates are no problem.
- Substrate preparation  
No pretreatment required.
- Substrate types  
Soudatight LQ has a good adhesion to following substrates: PVC, aluminium, wood, SWS window tapes, bitumen, most EPDM, all common porous building substrates. Soudatight LQ has no good adhesion or is not suitable for glass, PE, PP, PTFE (Teflon®). On non-porous substrates drying delay may occur. We recommend a preliminary adhesion and compatibility test on every surface.

## Application method

- Application method  
It is strongly recommended that Soudatight LQ is brought to room temperature before use, otherwise its processing properties may be adversely affected. Stir well before use. Do not dilute with water or solvents. Soudatight LQ is applied directly from the packaging onto the surface using flat brush. The product must be spread/coated onto the surface. Apply the airtightness paste undiluted and evenly in several layers (at least 2) on the substrate to a layer thickness of minimum 1 mm and maximum 3 mm. For the best possible coverage, the product is applied the second time under a different angle. It is recommended to apply the 2nd layer only after skin formation occurs at the first layer. The application thickness must be measured (wet) using a wet film comb. For window applications, ensure that the airtightness paste forms a seamless membrane of at least 3 mm on the window frame, over the flexible foam to  $\pm 5$  cm on the reveal area 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 LQ, before curing. For wall-to-floor connections, apply the airtightness paste sufficiently high (to above the water barrier) to guarantee an overlap with the plaster. For other connections, ensure that Soudatight LQ forms a seamless membrane over the joint with a minimum width of 3 cm on both sides of the joint.
- Cleaning method  
Before curing, Soudatight LQ can be removed with water from substrates and tools.
- 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.

## Packaging/Logistics

Colour: dark blue (turns black after drying), white (without colour change)

Packaging: 600 ml foil bag, 4,5 kg bucket

Shelf life: 12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C, Protect against frost.

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## Standards and certificates

- BBRI-report DE621XB622 LMA 5748: Determination of the adhesive strength of a liquid membrane (Soudatight LQ) on different types of substrates.
- BBRI-report DE621xB622-2 LMA 5748: Determination of adhesive strength of gypsum plaster applied to a substrate (breeze blocks) treated with Soudatight LQ.
- BBRI-repport DE621xB622-3 LMA 5748: Determination of the water-vapor-permeability-properties of Soudatight LQ.
- 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
- Passive House certified component determined by PHI, Darmstadt
- GEV EMICODE: EC1 PLUS - very low emission
- Eco-1 label: meets the highest requirements of eco-building, determined by ecobau Zürich

## Joint dimensions

- Cracks, joints or gaps < 5 mm can be coated with Soudatight LQ.
- Cracks, joint or gaps > 5 mm can be filled (with e.g. Flexifoam) or closed with Soudatextile in combination with Soudatight LQ.

## Environmental clauses

- Leed regulation: Soudatight LQ 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.

## Remarks

- Do not use in applications where continuous water immersion is possible.
- Soudatight LQ should not be diluted.
- After curing and trimming Flexifoam, Soudatight LQ can immediately be applied where with other PU foams it's necessary to wait 24h to 48h after trimming before applying Soudatight LQ.
- Not suitable for dilatation or expansion joints unless in combination with Soudatextile.
- Limited UV-resistant.

This technical data sheet replaces all 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.