



APPLICATION INSTRUCTIONS

SOUDATIGHT LQ

SOUDAL

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



1. PURPOSE

The purpose of this document is to establish typical guidelines for the application of Soudatight LQ. The techniques involved may require modifications to adjust to jobsite conditions. Always consult the Technical Data Sheet and the Safety Data Sheet for the latest information prior to application. Consult your local Soudal Sales Representative or Soudal Technical Services for specific design requirements.

2. APPLICATION AREA

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)

3. TOOLS AND MATERIALS

- Soudatight LQ – 4,5 kg bucket
- Flat synthetic bristle paint brush (for water-based paints)
- Masking tape
- Soudal Surface Cleaner
- Hand brush / Vacuum cleaner
- Cutter knife
- Trowel
- Soudal Flexifoam, Soudal Soudatextile, Mortar (for gap-filling)
- Wet film thickness gauge
- Surface temperature meter
- Stirrer
- Personal protective equipment: gloves, safety shoes, helmet, protective clothing



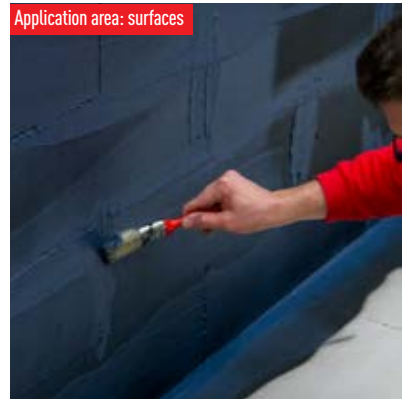
Application area: window connections



Application area: floor-to-wall connections



Application area: surfaces



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4. SUBSTRATE PREPARATION

Substrates should be clean and free of grease. Slightly moist or slightly dusty substrates are no problem. A primer is not required.

- 4.1 Remove standing water, loose particles, grease and dust from the substrates using a vacuum cleaner, hand brush or compressed air.
- 4.2 Close or fill all seams, gaps or holes > 5 mm.
 - Closing by using Soudatextile (a non-woven fleece) in combination with Soudatight LQ
 - Filling by using Flexifoam (a non-shrink flexible PU-foam) or a non-shrink gap filling mortar.



- 4.3 Check the ambient and substrate temperature using a surface temperature meter, both must fall within the limits of the application temperature specified in the Technical Data Sheet.

Soudatight LQ has a good adhesion to most common porous substrates in new construction and renovation works, as well as the materials used by window manufacturers such as PVC, aluminium and wood. It has also a good adhesion to the SWS window tapes (remove liner if present) and is compatible with most EPDM and bitumen. It is not suitable for glass, PE, PP and PTFE. However, a preliminary adhesion test on every substrate is always recommended. Note that the drying time may increase onto non porous substrates.

5. APPLICATION PROCEDURE

- 5.1 It is strongly recommended that Soudatight LQ is at room temperature before use, otherwise its processing properties may be adversely affected.
- 5.2 Stir Soudatight LQ well before use, using a stirrer. Do not dilute with water or solvents.
- 5.3 Apply Soudatight LQ to the substrate directly from the bucket using a flat synthetic bristle paint brush. The product is spread/coated onto the substrate, not painted. So scoop with the flat paintbrush, and spread over the surface to obtain a closed membrane.

Apply the airtightness paste undiluted and evenly in several layers (at least 2) on the substrate to a wet layer thickness of minimum 1 mm and maximum 3 mm.



- 5.4 For the best possible coverage, the second coat is applied under a different angle. It is recommended to apply the 2nd layer only after skin formation occurs at the first layer.
- 5.5 The application thickness must be measured wet for each layer and at various points using a wet film thickness gauge.
- 5.6 For window applications, ensure that the airtightness paste forms a seamless membrane of at least 3 mm overlap on the





SOUDAL AIRTIGHTNESS

Soudatight LQ
FIBER REINFORCED LIQUID MEMBRANE

Luftdicht • Étanche à l'air • Luftdicht
Airtight • Hermético • Ermetico



5 Kg

SOUDATIGHT LQ

window frame, over the flexible foam to ± 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 drying.

- 5.7** For wall-to-floor connections, apply the airtightness paste sufficiently high (above the water barrier) to guarantee an overlap with the plaster.



- 5.8** 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.



- 5.9** Soudatight LQ Black will change colour, from dark blue to black, during the drying process. When black the product is dry and ready for further finishing. Soudatight LQ White shows no significant colour change during the drying process, therefore take sufficient drying

time (> 48h) into account depending on the environmental factors (such as temperature, moisture and type of substrates).

- 5.10** After drying, Soudatight LQ can be plastered, painted and taped directly. The finishing must be done within the time limit specified in the Technical Data Sheet due to its limited UV-resistance.
- 5.11** Before completely dry, Soudatight LQ can be removed from substrates and tools with water. Once dried, Soudatight LQ has to be removed mechanically.

6. SPECIFIC CONNECTIONS

- 6.1** Connection with membranes or foils, e.g. vapour barriers:
- Check whether the edges of the membrane are firmly fixed. If this is not the case, this must be done thoroughly by means of an adhesive, tape or mechanical fastening. (Please consult the application instructions of the membrane manufacturer).
 - If Soudatight LQ adheres well to the membrane (or mounting tape), it can be applied to the membrane directly. Ensure an overlap of at least 5 cm.
 - If Soudatight LQ does not adhere well to the membrane (or mounting tape), a suitable self-adhesive tape should be placed on the edge of the membrane/film. Soudatight LQ is then applied on top of the tape.
- 6.2** Connection with engineered wooden boards or beams:
- Check for seams, gaps or holes in the connection area with the engineered wooden boards or beams. If there are any, act according to chapter 4.
 - If no or little movement is expected, e.g. between 2 wooden boards, Soudatight LQ can be applied directly to the wooden boards.
 - If the connection is made between concrete or masonry structures and wooden frame structures that are subject to shrinkage/expansion or other movements, a stress-relief loop has to be made using Soudatextile (in conjunction with Soudatight LQ) or a suitable (self-adhesive) tape. Soudatight LQ is then applied on top of the tape.

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6.3 Dilatation or expansion joints:

■ A dilatation or expansion joint should be sealed with a suitable sealant.

Consult the Soudal Website or your local Soudal Sales Representative for further information.

■ If Soudatight LQ is to be applied over the dilatation or expansion joint, a stress-relief loop has to be made using Soudatextile (in conjunction with Soudatight LQ) or a suitable (self-adhesive) tape. Soudatight LQ is then applied on top of the tape.



7. RESTRICTIONS

7.1 Soudatight LQ is not suitable for dilatation or expansion joints, unless in combination with Soudatextile.

7.2 Do not use in applications where continuous water immersion is possible.

7.3 Soudatight LQ should not be diluted.

7.4 Avoid contact with any type of liquid during the drying process.

7.5 Close the lid off the bucket immediately after use (also during breaks).

7.6 After curing and trimming of Flexifoam, Soudatight LQ can immediately be applied, whereas for other PU foams it's necessary to wait 24h to 48h after trimming before applying Soudatight LQ.

7.7 Limited UV-resistant (cfr. Technical Data Sheet).

8. LIABILITY

These application instructions replace all previous versions. The directives contained in this document are the result of our experiments and our experience and have been submitted in good faith. 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 of a construction detail, the quality of the substrate and processing conditions are beyond our control, no liability under this publication is accepted. In every case it is recommended to carry out preliminary experiments. Soudal reserves the right to modify products without prior notice.



**NEW CONSTRUCTION
OR RENOVATION?**

**FOCUS ON
AIRTIGHTNESS.**



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