

## STOPAQ® ALUCLAD FR

### Product Information

**Product description:** Stopaq® Aluclad FR is a flexible wrap-around cladding material suited for use in atmospheric conditions over insulation materials in (petro-)chemical, building, and HVAC applications. It can also be used to seal voids and seams in existing aluminium, stainless steel and composite cladding materials.

Stopaq® Aluclad FR consists of a reinforced Aluminium backing combined with a non-crystalline, low-viscosity, non-crosslinked (fully amorphous), pure homopolymer Polyisobutylene-based self-bonding sealant with flame retardant properties. The reinforced Aluminium backing provides elementary vapour barrier properties, while the Polyisobutylene-based self-bonding sealant provides an excellent bond to all types of substrates as well as to its own backing, thereby eliminating the risk of water vapour ingress at the overlaps.

#### Features:

- Excellent water vapour barrier properties
- Good puncture- and tear resistance
- Resistance to low temperatures without getting brittle
- UV-resistant
- Flame retardant
- Equivalent to CINI 3.3.06 type C

#### Benefits:

- Fast and easy to apply
- Adheres to virtually any type of substrate
- Excellent long term performance, even when continuously operated at maximum service temperature.

### Application examples

**Chemical and Petrochemical industry:** As vapour barrier on thermal insulation materials and as sealing tape on seams of installed cladding for both hot and cold pipes, fittings, vessels, etc.

**HVAC:** As vapour barrier on thermal insulation materials and as sealing tape on seams of installed cladding on HVAC pipes, ducts, etc.

**Building:** As vapour barrier membrane in building constructions e.g. around windows, doors, walls, and other trouble spots.

### General order information

<b>Product</b>	Stopaq® Aluclad FR is supplied in rolls with the following dimensions: <b>Art. Nr.:</b> <u>Product dimensions and contents:</u> 69071-01000 100mm x 10m [4" x 33'], 6 rolls/box
<b>Handling</b>	Handle with care. Keep boxes upright.
<b>Storage</b>	Store indoor, clean and dry, away from direct sunlight in a cool place below +45 °C [113 °F]. Unlimited shelf life.

### Product properties of Stopaq® Aluclad FR

<b>Thickness</b>	Aluminium layer of backing: 50 µm [2 mils] Total product: 1,2 ± 0,1 mm [47 ± 4 mils]
<b>Temperature ranges</b>	Operational: -45 to +70 °C [-49 to +158 °F] Installation: Above +10 °C [+50 °F]
<b>Bursting strength</b>	≥ 2700 kPa [390 psi] (ASTM D774)
<b>Tensile strength</b>	Warp / MD: 40 N/mm [225 lbs/in] (ASTM C1136) Fill / TD: 40 N/mm [225 lbs/in] (ASTM C1136)
<b>Peel strength between layers</b>	At 180° angle and 100 mm/min [4"/min] <sup>A)</sup> – @ 23 °C [73 °F] ≥ 0,2 N/mm [18 ozf/in] – @ 70 °C [158 °F] ≥ 0,02 N/mm [1.8 ozf/in]  Ratio @ 23 °C [73 °F] after 100 days thermal ageing at 90 °C [194 °F]: P <sub>100</sub> /P <sub>0</sub> ≥ 0,75 <sup>A)</sup>  Ratio @ 23 °C [73 °F] after 28 days hot water immersion at 70 °C [158 °F]: P <sub>28</sub> /P <sub>0</sub> ≥ 0,75 <sup>A)</sup>
<b>Lap shear test</b>	Shear strength at shear rate 10 mm/min [0.4"/min] <sup>A)</sup> – @ 23 °C [73 °F] ≥ 0,02 N/mm <sup>2</sup> [2.9 psi] – @ 70 °C [158 °F] ≥ 0,002 N/mm <sup>2</sup> [0.29 psi]  Shear strength at shear rate 100 mm/min [4"/min] <sup>B)</sup> – @ 23 °C [73 °F] ≥ 200 N / 50 mm [45 lbf/in] – @ 70 °C [158 °F] ≥ 25 N / 50 mm [5.6 lbf/in]

<sup>A)</sup> ISO 21809-3:2016; <sup>B)</sup> EN 12317-1:1999

### Application instruction - Brief version

Contact Seal For Life Industries for detailed application instructions on e.g. pipes, ducts, existing cladding, etc.

**Substrate cleanliness** The surface to be coated must be dry and free from dirt, oil, moisture, and other contaminants that would otherwise impair proper application.

**Application** Cut the Stopaq® Aluclad FR to size, apply and mould it onto the surface to be coated. A minimum overlap on itself of 50 mm [2"] is recommended. Remove the release foil gradually whilst applying. This will facilitate application and will minimize creasing and wrinkling. Avoid air inclusions, tenting and bridging at overlaps.

### Information

**Documentation** Extensive information is available on our web-site. Application instructions and other documentation can be obtained by contacting our head office, from our local distributor or by sending email to [info@sealforlife.com](mailto:info@sealforlife.com)

**Certified staff** Application of the described coating system should be carried out by certified personnel.