

STOPAQ® ALUCLAD FR

Product Information

Product description: Stopaq® Aluclad FR is a flexible wrap-around cladding material suited for outdoor use over insulation materials in (petro-)chemical, building, and HVAC applications.

Stopaq® Aluclad FR consists of a reinforced Aluminium backing combined with a non-crystalline, low-viscosity, non-crosslinked (fully amorphous), non-reactive 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

Product	Stopaq® Aluclad FR is supplied in rolls with following dimensions:
Art. Nr.:	<u>Product dimensions and contents:</u> 100mm x 10m, 6 rolls/box
Handling	Handle with care. Keep boxes upright.
Storage	Store indoor, clean and dry, away from direct sunlight in a cool place below +40°C. Unlimited shelf life.

Product properties of Stopaq® <product>

Thickness	Aluminium backing: – Aluminium layer: 20 µm – Aluminium + reinforcement: 200 µm Product: – 1.2 ± 0.1 mm
Temperature ranges	Operational: - 45°C to +70°C Installation: Above +10°C
Tensile strength	Warp direction / MD: ≥ 10 N/mm ^{A)} Fill direction / TD: ≥ 5 N/mm ^{A)}
Peel strength between layers (overlap)	Peel strength at 180° angle and 100 mm/min ^{B)} – at +23°C > 0.2 N/mm – at +70°C > 0.02 N/mm
Lap shear test (overlap)	Shear strength at +23°C – shear rate 10 mm/min: > 0.02 N/mm ^{B)} – shear rate 100 mm/min: > 200 N / 50 mm ^{C)} Shear strength at +70°C – shear rate 10 mm/min: > 0.002 N/mm ^{B)} – shear rate 100 mm/min: > 40 N / 50 mm ^{C)}
Ageing resistance	Ratio of peel strength between layers ^{B)} – after thermal ageing for 100 days at +90°C: P' ₁₀₀ / P' ₀ ≥ 0.75 – after hot water immersion for 28 days at +90°C: P' ₂₈ / P' ₀ ≥ 0.50

A) EN 12311-2:2013 Method A

B) ISO 21809-3:2016

A) EN 12317-1:1999

Application instruction – Brief version

General	Contact Seal For Life Industries for detailed application instructions on e.g. pipes, ducts, etc.
Substrate cleanliness	The surface must be free from dirt, oil, moisture, and other contaminants that impair proper application.
Application	Cut the foil to size, apply and mould it onto the surface. A minimum overlap onto itself of 50 mm 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 website. Application instructions and other documentation can be obtained by contacting our head office, from our local distributor or by sending email to info@stopaq.com
Certified staff	Application of the described coating system should be carried out by certified personnel.