

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		
Product	Stopaq® Aluclad FR is supplied in rolls with the	
	following dimensions:	
Art. Nr.:	Product dimensions and contents:	
69071-01000	100mm x 10m [4" x 33'] , 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 +45 °C [113 °F].	
	Unlimited shelf life.	

Product properties of Stopag® Aluclad FR				
Thickness	Aluminium lay	ver of backing: 50 μm [2 mils]		
	Total product:	: 1,2 ± 0,1 mm [47 ± 4 mils]		
Temperature ranges	Operational:	-45 to +70 °C [-49 to +158 °F]		
	Installation:	Above +10 °C [+50 °F]		
Bursting strength	≥ 2700 kPa [39	≥ 2700 kPa [390 psi] (ASTM D774)		
Tensile strength	Warp / MD:	40 N/mm [225 lbs/in] (ASTM C1136)		
	Fill / TD:	40 N/mm [225 lbs/in] (ASTM C1136)		
Peel strength	At 180° angle	At 180° angle and 100 mm/min [4"/min] A)		
between layers	— @ 23 °C [73	3 °F] ≥ 0,2 N/mm [18 ozf/in]		
	- @ 70 °C [15	58 °F] ≥ 0,02 N/mm [1.8 ozf/in]		
	Ratio @ 23 °C	[73 °F] after 100 days thermal ageing		
	at 90 °C [194 °	PF]: $P_{100}/P_0 \ge 0.75^{A}$		
	_	[73 °F] after 28 days hot water		
		70 °C [158 °F]: $P_{28}/P_0 \ge 0,75^{A}$		
Lap shear test	-	n at shear rate 10 mm/min [0.4"/min] A)		
	— @ 23 °C [73	3 °F] ≥ 0,02 N/mm² [2.9 psi]		
	— @ 70 °C [1!	58 °F] ≥ 0,002 N/mm² [0.29 psi]		
	-	n at shear rate 100 mm/min [4"/min] ^{B)}		
		3 °F] ≥ 200 N / 50 mm [45 lbf/in]		
A)	- @ 70 °C [15	58 °F] ≥ 25 N/ 50 mm [5.6 lbf/in]		

A) ISO 21809-3:2016; B) 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
Certified staff	Application of the described coating system should be carried out by certified personnel.



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DISCLAIMER: Seal For Life Industries warrants that the product conforms to its chemical and physical description and is appropriate for the use stated on the technical data sheet when used in compliance with Seal For Life Industries' written instructions. Because many installation factors are beyond the control of Seal For Life Industries, the user shall determine the suitability of the products for the intended uses and assume all risks and liabilities in connection herewith. Seal for Life's liability is stated in its General Terms and Conditions of Sale. Seal For Life Industries makes no other warranty either express or implied. All information contained in this technical data sheet is to be used as a guide and is subject to change without notice. This technical data sheet supersedes all previous data sheets on this product.