

STOPAQ® INSULWRAP FR

Product Information

Product description: Stopaq® Insulwrap FR is a vapour barrier wrapping material suited for dry applications. It is very well suited for use over insulation materials in (petro-) chemical installations, and for use in building and HVAC industry.

Stopaq® Insulwrap FR consists of a Aluminium / Polyester laminate backing, combined with a non-crystalline, low-viscosity, non-crosslinked (fully amorphous), non-reactive Polyisobutylene-based self-bonding sealant with flame retardant properties. The laminate 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
- Flame retardant
- Equivalent to CINI 3.3.6. type B.

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 used in chemical and petrochemical industry for both hot and cold pipes, fittings, vessels, etc.

HVAC: As vapour barrier on thermal insulation materials used 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® Insulwrap FR is supplied in rolls with following dimensions: <u>Product dimensions and box contents:</u> 50mm x 15m, 12 rolls/box 100mm x 15m, 6 rolls/box 600mm x 15m, 1 roll/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® Insulwrap FR

Thickness	– Aluminium / Polyester laminate: 25 / 23 µm – Total product: 1.0 ± 0.1 mm
Temperature ranges	Operational: - 45°C to +70°C Application: Above +5°C
Water vapour permeability	Max 10 ⁶ g/m ² .h.mmHg (ASTM E96 proc. E)
Tensile strength	> 3.0 N/mm ^{B)}
Peel test layer to layer (overlap)	Peel strength at 100 mm/min – @+23°C > 0.2 N/mm ^{A)} – @+70°C > 0.02 N/mm ^{A)}
Lap shear test (overlap)	Shear strength @+23°C – shear rate 10 mm/min: > 0.02 N/mm ² ^{A)} – shear rate 100 mm/min: > 200 N / 50 mm ^{C)} Shear strength @+70°C – shear rate 10 mm/min: > 0.002 N/mm ² ^{A)} – shear rate 100 mm/min: > 40 N / 50 mm ^{C)}

A) ISO 21809-3 Amendment 1:2011 §18

B) EN 12311-2:2013 Method A

C) 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 product should be carried out by certified personnel.