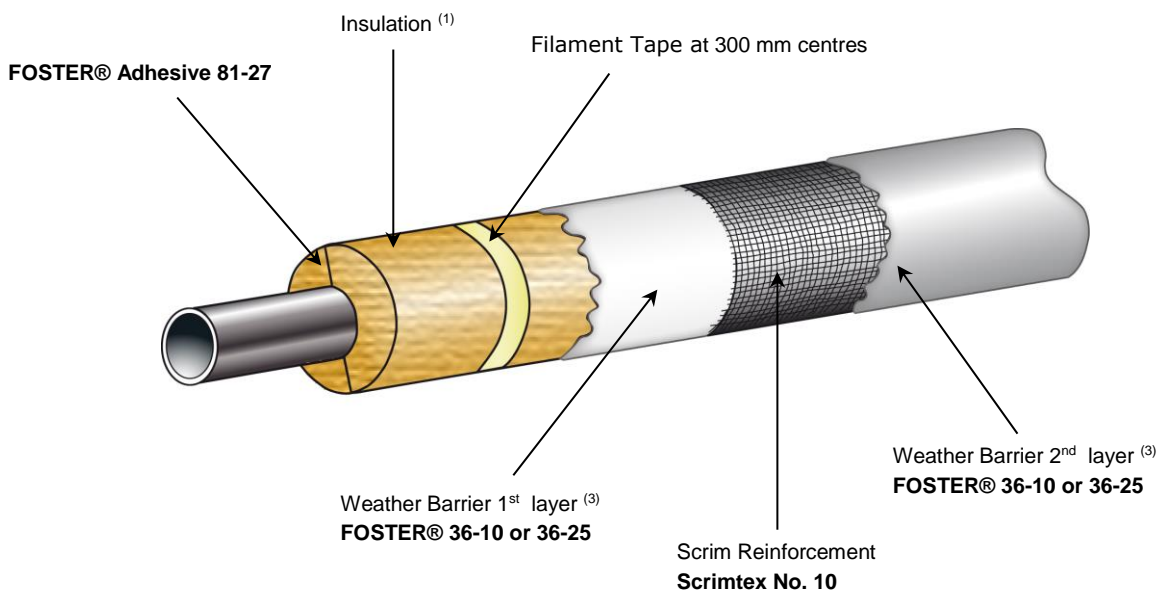




Hot insulation



N.B. Additional metal cladding ⁽²⁾ is optional.

The Problem

With hot insulation it is imperative to prevent moisture from entering the insulation system, as this will reduce the system's performance and can contribute to corrosion of the underlying pipes, vessels, flanges, valves, etc. The weather barrier must additionally be able to "breathe", in order to allow any moisture already in the system to be expelled.

The Solution

FOSTER® Products Corp, world market leader in the protection of thermal insulation for more than 50 years, provides total solutions to prevent the ingress of moisture into hot insulation systems. FOSTER® weather-barriers offer total protection without any seams, overlaps or joints to cause short- or long-term failures.

This is especially important on bends, T-junctions, vessels, etc. FOSTER® weather-barrier coatings are fully weather resistant and make the use of additional metal cladding optional.

The FOSTER® System

Adhesive – Where fibrous insulation or calcium silicate is required to be adhered to itself or to a hot substrate, FOSTER® 81-27 Fibrous Adhesive is used.

Sealant – On hot insulation the insulation-joints do not require a sealant.

Weather Barrier – Over the outer insulation surface a FOSTER® weather barrier mastic is applied in two layers, with a reinforcement fabric wrapped in the first layer prior to application of the second layer. Often different colours are used to ensure proper coverage.

Remarks:

- (1) In order to facilitate the application, enhance the appearance and reduce the quantity of mastic used, foil faced fibrous insulation is often preferred over unfaced insulation.
- (2) Where metal jacketing is used as an outer cover over the insulation, the overlaps are sealed with a FOSTER® metal sealant.
- (3) Alternative protective system for indoor insulation on pipes or ducts in lieu of a 2-coat + scrim application: indoor insulation can be covered with a light-weight lagging-cloth (canvas or fibre glass) soaked/ coated with a foster coating - e.g. 30-36 or 30-52.

Technical Support

This selection guide covers the best practice for most situations. If you need additional information please contact our technical department. Based on our engineered solutions we can advise on specific details, application and engineering.



HOT INSULATION – INDOOR/ OUTDOOR

Foster code ⁽³⁾	Product Name	Solvent based	Solvent free low voc	Service temp. °C	Product Description
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PROTECTIVE COATING

36-10 36-25	Weatherite Mastic White Weatherite Mastic Grey		✓	-29 to +82	A water-based, extremely fire-resistant weather barrier mastic for use on most insulations. It has excellent brushing and troweling properties.
30-36	Sealfas Coating White		✓	-20 to +85	A tough, white, washable, abrasion-resistant coating for indoor thermal insulation. Also used with lagging cloth (see remark 3 on front side).

ADHESIVE

81-27	Fibrous adhesive		✓	+10 to +1000	A sodium-silicate based incombustible adhesive for bonding insulation to itself and to non-porous surfaces.
(81-28)	Fos-stik	✓		+5 to +40	CFC-free aerosol adhesive for bonding a wide range of materials.

SCRIM REINFORCEMENT

Tem ⁽³⁾	Scrimtex (N 10)	-	-	+250	10 x 10 fibreglass reinforcement scrim with excellent dimensional stability.
42-24	Mast-A-Fab	-	-	+121	9 x 8 polyester scrim with a PVA finish.

METAL SEALANT/ JACKETING SEALANT

95-44	Elastolar Sealant	✓		-40 to +121 ⁽¹⁾	Fire-resistant, aluminium-coloured, flexible vapour barrier for sealing laps of metal jacketing over insulation.
96-01	Extruded Sealant tape		✓	-51 to +71	Non-hardening butyl gap sealant with excellent adhesion and weathering properties for use on plastic foam and cellular glass insulations also on sheet metal.
Tem ⁽²⁾	Temseal™ UAF		✓	-50 to +150	General purpose anti-fungal silicone sealant or adhesive.
Tem ⁽²⁾	Kiilto Masa		✓	-40 to +90	IMO certified one-component MS Polymer elastic joint-sealant and adhesive.

KEY

Recommended Foster product	Recommended non Foster product
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Remarks

- (1) Service temperature dependant on substrate and application, please refer to TDS
 (2) 'Tem' = a Temati Product (non-FOSTER)

Other Products :	Heat transfer :	Foster 30-60 Heat transfer cement
	Anti Stress-Corrosion :	Foster 57-73 Stainless steel coating
	Anti Abrasion :	Foster 30-16 WB Coating for cellular glass