

Technical Insulation

Passive Fire Protection

Great Britain & Ireland

K-Stop® Multicoat

Technical Data Sheet

Description

Kingspan K-Stop® Multicoat spray grade, is an ablative sealant coating designed to enhance, seal and fire protect mineral fibres. It is based on a durable polymer system with inert fillers, non-halogenated fire retardants and a preservative to resist microbial attack.

K-Stop® Multicoat is designed to be applied via spraying directly onto mineral fibres. The coating dries to give a sound, flexible white surface finish. During installation of mineral fibres, the cured sealant coating reduces de-lamination and increases surface stability for adhesive and fixing sealant application.

The ablative property of the coating resists flame spread and protects the mineral fibres against fire penetration by significantly reducing the permeability of the mineral fibre core and prevents the passage of hot gases, thus reducing the temperature rise on the unexposed side and reducing heat conduction through the building services.

Mineral fibres coated with K-Stop® Multicoat are designed to prevent the spread of fire and smoke through openings in fire rated walls and floors, also where openings are formed to allow the installation of multiple building services. The system will also maintain the acoustic design performance.

Properties and Precautions

- The coating applied on mineral fibres is classified for all types of constructions with or without building service penetrations.
- Simple and very quick to install.
- Resists UV, humidity and frost (once cured).
- Easy to retrofit additional building services after installation.
- Suitable for most surfaces, including concrete, bricks, masonry, steel, wood, gypsum, glass, plastics and most non-porous surfaces.



- May be installed in insulated or un-insulated drywalls with or without framing around the opening.
- Halogen free with added fungicides.
- Precautions are required to be taken to prevent a person stepping onto a blank horizontal penetration seal.
- The coating is not intended for application on bituminous substrates or substrates that can extrude certain oils and plasticizers or solvents.
- The coating is not recommended for use in submerged joints or areas exposed to high abrasion.
- The coating should not come into contact with food or medical applications.

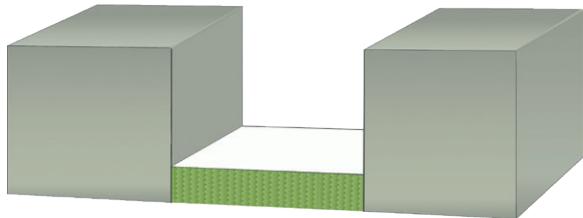


K-Stop® Multicoat

Resistance to Fire - Linear Seals and Apertures

Construction	Description	Classification
Flexible and rigid walls comprise drywalls, masonry, aerated concrete or concrete walls	Unlimited width by 1200 mm high seal with double 50 mm thick stone wool at density minimum 150 kg/m ³ coated on both outer faces with 1.0 mm WFT of K-Stop® Multicoat	EI 120 (E 120)
Rigid walls comprise masonry, aerated concrete or concrete, within walls or between the head of walls and the soffit of floor slabs	Unlimited width by 1200 mm high seal with single 60 mm thick stone wool at density minimum 150 kg/m ³ coated on both faces with 1.0 mm WFT of K-Stop® Multicoat	EI 90 (E 240)
	Unlimited width by 1200 mm high seal with double 60 mm thick stone wool at density minimum 150 kg/m ³ coated on both sides with 1.0 mm WFT of K-Stop® Multicoat	EI 180 (E 240)
	Unlimited width by 120 mm high seal with single 100 mm thick stone wool at density minimum 35 kg/m ³ compressed into gap by 40% and coated on both faces with 1.2 mm WFT of K-Stop® Multicoat overlapped by 15 mm onto wall surface	EI 180 (E 240)
Rigid floors comprise aerated concrete or concrete within floors or between floors and walls	Unlimited length by 800 mm wide seal, or up to 2400 by 1200 mm aperture, with single 60 mm thick stone wool at density minimum 150 kg/m ³ coated on both faces with 1.0 mm WFT of K-Stop® Multicoat	EI 90 (E 120)
	Unlimited length by 400 mm wide seal, or up to 1200 by 600 mm aperture, with single 60 mm thick stone wool at density minimum 150 kg/m ³ coated on both faces with 1.0 mm WFT of K-Stop® Multicoat	EI 120 (E 240)
	Unlimited length by 120 mm wide seal with top flush single 100 mm thick stone wool at density minimum 33 kg/m ³ coated on top face with 1.0 mm WFT of K-Stop® Multicoat	EI 180 (E 240)

Installation Instructions



- 1 Before installing the mineral fibre stone-wool core, please ensure that the surface of all surrounding constructions is free from all loose contaminants, dust and grease. The stone-wool should be dry and sound, and any large loose pieces should be brushed off before spraying.
- 2 K-Stop® Multicoat is water based, so in cases where corrosion protection is a problem, some metals may require a barrier between the seal and the surface prior to this installation.
- 3 Select the type of stone-wool core and friction fit into the seal according to the fire resistance table opposite. Any gaps or imperfections in the stone-wool must be filled with Kingspan K-Stop® Intumescent Mastic Plus. For penetration seals, please refer to the Installation Instructions for K-Stop® Coated Batt.
- 4 Spray apply K-Stop® Multicoat to the stone-wool according to the fire resistance table opposite. Spraying pressures will depend on the type of pump and nozzle used approximately 1700 to 2300 psi using a 25 to 35 thou' tip. Apply the coating in smooth strokes and with the minimum of overspray to achieve an even film thickness and consistent drying across the stone-wool.
- 5 Calculate minimum 1 litre of K-Stop® Multicoat per m². The required wet film thickness is usually achieved when the surface is to a satisfactory proper white finish when dry.
- 6 Overspray can increase drying times. Drying times will be dependent on film thickness, ambient temperature and humidity and may be reduced by using drying ovens and/or fans.
- 7 K-Stop® Multicoat can be over-painted with most emulsion or alkyd (gloss) paints.

NB For penetration seals, please see the Installation Instructions for Kingspan K-Stop® Coated Batt.

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Supporting Constructions

Flexible walls must have a minimum thickness of 100 mm and comprise steel studs or timber studs** lined on both faces with minimum 2 layers of 12.5 mm thick boards. Rigid walls must have a minimum thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a minimum density of 650 kg/m³. Rigid floors must have a minimum thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650 kg/m³.

**Timber studs: no part of the penetration seal may be closer than 100 mm to a stud, and minimum 100 mm of insulation of class A1 or A2 according to BS EN 13501-1: 2018 (Fire classification of construction products and building elements - Classification using data from reaction to fire tests) must be provided within the cavity between the penetration seal and the stud.

Test Standards

This Installation Instructions and the Technical Data Sheet are based on the product's European Technical Assessment issued in accordance with regulation (EU) No 305 / 2011 on the basis of EAD 350454-00-1104, September 2017, tested to BS EN 1366-3: 2021*, BS EN 1366-4: 2021* and BS EN 1366-12: 2014 + A1: 2019* (Fire resistance tests for service installations - Penetration seals, Fire resistance tests for service installations - Linear joint seals, Fire resistance tests for service installations - Non-mechanical fire barrier for ventilation ductwork) in conjunction with BS EN 1363-1: 2020* (Fire resistance tests - General requirements). The product holds the following approval marks: CE-Mark, UL-EU Certificate, UAE Certificate of Compliance and AS Assessment.

Packaging

K-Stop® Multicoat spray grade is available in 8 litre plastic pails.

* And all previous editions.

Technical Data

Form	Ready to use viscous paste
Cure System	Water loss
Colour	White
Non-sticky	Max. 75 minutes
Film Forming	Max. 25 minutes
Totally Hardened	3 to 5 days depending on thickness and temperature
Reaction to Fire	Class D-s1, d0
Flexibility	High; > 25%
Density	1.3 - 1.4 kg/ltr
pH	8.5 - 9.2
Flash Point	None
Solids Content	> 58 % (w/w)
Temperature Range	-30 °C to +80 °C (when hardened)
Application Temperature	+5 °C to +50 °C
Durability	Y ₁ - Intended for use at temperatures below 0°C with exposure to UV and humidity but no exposure to rain. Includes lower classes Y ₂ , Z ₁ and Z ₂ .
Shelf Life	Up to 12 months when stored in unopened containers under cool dry conditions. Avoid frost and extremes of temperature. Stored between +5 °C to +30 °C
Working Life	Minimum 25 years if conditions are met

Health & Safety

Wash the material from the skin while still wet. Material in contact with eyes should be washed out immediately with water. Seek medical advice if discomfort persists. More detailed information can be found in the K-Stop® Multicoat Safety Data Sheet.

Contact Details

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