
Technical Insulation

Passive Fire Protection
Great Britain & Ireland

K-Stop® Firescreen Sealant

Technical Data Sheet

Description

Kingspan K-Stop® Firescreen Sealant is a high performance, professional quality, one part ready to use sealant and adhesive.

K-Stop® Firescreen Sealant is designed for sealing joints, voids / irregular holes in walls, partitions and other structures, resulting in an airtight and watertight seal.

K-Stop® Firescreen Sealant is a non-reactive chemistry that ensures compatibility with most building materials and has the unique property of moving dynamically to accommodate the natural or unexpected movements of sealed / bonded joints within a building, for long-lasting performance.

General Properties

- Primerless adhesion.
- Provides adhesion to most common substrates.
- Dynamic for low and high modulus applications.
- 3D joint movement capability minimum 25%.
- Fire rated up to 4 hours depending on application.
- Resistant to slumping.
- Resistant to mould and mildew.
- Low dirt pick up.
- Non staining on susceptible surfaces.
- Easy to apply and tool off.
- Excess can be wiped before curing with a damp cloth.
- Paintable.
- Low shrinkage.
- Does not yellow.



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Applications

K-Stop® Firescreen Sealant remains permanently flexible and is paintable with both alkyd resin and water based paints.

Suitable applications include:

- internal sealing around doors and windows;
- sealing where air quality for health is important;
- sealing around flooring;
- fire resistant sealing; and
- air and sound sealing.

Fixing and Bonding

K-Stop® Firescreen Sealant bonds to most building materials. Substrates include:

- brick, concrete, stone, slate, ceramic, marble, granite;
- timber, plywood, block board, chipboard, fibreboard;
- uPVC plastic trims and polycarbonate;
- insulating board;
- expanded polystyrene;
- plasterboard and plaster;
- metals, aluminium, steel, lead, copper and alloys; and
- painted surfaces.

Surplus uncured material can be easily removed using a damp cloth as the uncured sealant is completely soluble in water.

Limitations

- Where metals are not compatible with water contact, they should be primed prior to any sealant application.
- The sealant is soluble in water in wet / uncured state and cannot be used submerged or in rain. Applied sealant must not be sprayed with water or other fluids before skin formation (<30 min).
- The sealant should not be used outdoors due to the design of the curing process technology.
- Very narrow seals cure faster than normal.
- Recommended for use in joints up to 20 mm wide, larger joint widths can be accommodated.

Pipe End Configurations

When testing pipes, one can choose not to cap (or close) the pipe, or cap the pipe inside the furnace, or outside the furnace, or on both sides. The configuration chosen depends on the intended application of the pipe and/or the installation environment. The code defining if a pipe is capped is stated after the fire classification. For instance, EI 60 C/U which means the pipe was capped inside the furnace, and uncapped outside the furnace. The test configuration defines the approvals possible.

Our engineering judgement based on BS EN 1366-3: 2021* (Fire resistance tests for service installations. Penetration seals) are:

Intended Use of Pipe	Pipe End Condition ³⁾	
Rainwater pipe, plastic	At drainage	U/U ¹⁾
	Not at drainage	C/C ²⁾
Drainage or sewage pipe, plastic	Ventilated drain	C/U ¹⁾
	Unventilated drain	U/C ²⁾
	Drain w/water trap	U/C ¹⁾
	Not at drainage	C/C ²⁾
Metal or plastic pipe in closed system (water, gas, air etc.)	C/C ¹⁾	
Metal pipe in ventilated system (sewage etc.)	U/C ¹⁾	
Flue gas recovery system pipe, plastic	U/C ¹⁾	
Pipe with open ends and ≥ 50cm length on both sides, plastic	U/U ²⁾	
Waste disposal shaft pipe, metal	U/C ²⁾	

¹⁾ Stated in BS EN 1366-3: 2021*.

²⁾ Kingspan's judgment based on tests.

³⁾ U/U classified fire seals cover C/U, U/C and C/C. C/U classified fire seals cover U/C and C/C. U/C classified fire seals cover C/C.

* And all previous editions.

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Usage

Usage for a standard 300 ml cartridge.

Joint Size (mm)	6 x 6	9 x 6	12 x 6	25 x 10	7 x 7 Fillet	10 x 10 Fillet
Linear metres/ cartridge	8.63	5.50	4.10	1.20	12.00	6.00

Air Permeability

Positive Pressure (Pa)	Leakage (m ³ /m ² /h)	Negative Pressure (Pa)	Leakage (m ³ /m ² /h)
25	0.00	25	0.00
50	0.00	50	0.00
100	0.00	100	0.00
200	0.28	200	0.00
300	0.83	300	0.56
450	1.67	450	0.83
600	3.06	600	2.78

Installation

Please refer to the K-Stop® Firescreen Sealant installation guide, available to download from www.kingspanpassivefireprotection.co.uk.

Technical Data

Form	Ready to use thixotropic paste
Specific Gravity	1.54 g/cm ³
VOC	0 g/l
Durability w / Ageing	Type X (UV / water) (pass)
Flashpoint	None
Reaction to Fire	B-s1, d0
Fire Resistance	Up to class EI 240 depending on application
Tack Free Time	60 minutes maximum
Skin Time	30 minutes maximum
Rate of Cure	10% at 24 hours
Solids Content	> 80%
Resistance to Flow	< 0.5 mm
Shelf Life	Up to 12 months when stored in unopened cartridges under cool dry conditions and 6 months in opened and resealed cartridges. Avoid temperatures above 30 °C and below 5 °C.
Frost	Uncured sealant should not be frozen
Thermal Conductivity	0.845 W/mK (+/- 3%) at 20 mm depth (to BS EN 12667: 2001* (Thermal performance of building materials and products. Determination of thermal resistance by means of guarded hot plate and heat flow meter methods. Products of high and medium thermal resistance))
Compatibility	Can be used in contact with most building and decorating materials
Service Temperature	-40 °C to +75 °C
CE Classification	CE marked and UKCA marked - Sealant for fire rated linear joints and penetrations class EI 240 depending on application
Colours	White
Packaging	300 ml cartridge
Health & Safety	No health hazard, approved for BREEAM rated building projects. See Safety Data Sheet.
Responsible	Kingspan Technical Insulation Ltd

* And all previous editions.

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