QuelStop Intumescent Acrylic Sealant INSTALLATION INSTRUCTIONS

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This installation guide is intended for general information only and all details should be checked against relevant supporting test evidence and certification.

QuelStop CE Marked Intumescent Acrylic Sealant forms part of a lifesaving system designed to prevent the spread of fire through compartment walls and floors, it is therefore essential that the product is installed in a responsible and workmanlike manner with life safety in mind.

QuelStop Intumescent Acrylic Sealant is a fundamental part of the QuelStop Fire Batt System and should be applied to all cuts, joints and exposed edges of the batt by simply pumping from the gun and then buttering or smoothing out with a spatula.

QuelStop Intumescent Acrylic Sealant can also be used for sealing directly around services such as cable, cable bundles, trays, ladders and non-combustible pipes, either as part of a seal directly within the wall substrate or as part of a QuelStop Fire Batt Seal in either case the annulus (the width of the seal around the service) and the depth of the seal is critical in providing the specified fire performance.

QuelStop Intumescent Acrylic Sealant can also be used as a linear joint seal in a range of applications between concrete and concrete, steel or softwood and also to a gypsum board headtrack and around wooden fire door frames. A mineral wool or PE backing rod, can be used as a backing material to ensure the correct depth of sealant is applied in order to achieve the required performance.

Key considerations before installing QuelStop Intumescent Acrylic Sealant:

- Ensure that the aperture, services or joint in question are tested with QuelStop Intumescent Acrylic Sealant and the site conditions are within the application specification.
- The supporting construction must be installed in accordance with the manufacturer's guidelines and must be capable of achieving the required fire rating of the firestop.
- All services should be adequately supported either side of the firestop to ensure that no load is transferred onto the firestop seal.
- Check that any services are compatible with the sealant - note for example that CPVC sprinkler pipes should not come into contact with non-approved sealants.
- Consider any movement that might occur in the joint to be sealed. This should include thermal, wind pressures, settlement and differential movement of components.
- Consider the performance capabilities of the sealant, movement capabilities, adhesion properties and chemical resistance, etc.

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- Consider the location and environment of the joint to be sealed. Exposure to temperature extremes, ultraviolet light, chemical attack, standing water and vibration.
- Ensure there is adequate space and accessibility to apply and tool the sealant.
- Consider the use of backing materials to ensure the correct depth of the QuelStop Intumescent Acrylic Sealant is applied in order to achieve the required performance.
- Where the QuelStop Intumescent Acrylic Sealant is being used in conjunction with other Quelfire products such as QuelStop Fire Batt and QRS Fire Sleeves, this document should be read in conjunction with the relevant supporting details and installation guides.
- To determine an approximate quantity of QuelStop Intumescent Acrylic Sealant required for linear joint seals, calculate as follows: Gap Width in mm x Depth in mm x Total Length in metres ÷ 310 = Number of cartridges. (Remember to double the amount for both sides of the seal if the total length is measured singly) Please note that this is an approximate calculation and to be used for guidance only and an amount of wastage should be allowed for as Quelfire has no control of the application. It is the installer's decision on the amount of sealant that is required and Quelfire cannot be held liable for any orders of incorrect amounts.

YIELD

Joint Size (mm)	Depth of Sealant (mm)	Yield per 310ml Cartridge (m)
10	10	3.10
20	15	1.03
30	20	0.51

ADDITIONAL DATA

Slump	5mm after 1hour in 30mm joints	**Application Temperature**	+5°C to +35°C
Shrinkage	Approximately 12%	**Tack Free**	30 minutes at 23°C and 50% relative humidity
Cure Rate	3mm per day at 50% relative 23°C	**VOC % Nonaqueous volatiles (105°C)**	3.6
Specific Gravity	1.56 – 1.66 g/cm^3	**Acoustic Rating**	Up to Rw (C;Ctr) :63 (-2;-7) dB

Installation principles of QuelStop CE Marked Intumescent Acrylic Sealant

- Before application, surfaces should be free of any dust, grease, debris and bond breaking contamination and consideration could be given to the use of a primer. On good, solid substrate priming is not normally required, though you should refer to the substrate compatibility requirements.
- The sealant should not be applied if the ambient temperature is below 5°C or above 40°C, as the adhesion may be impaired.
- The sealant should be pumped into position directly from an appropriate gun and installed to the specified annulus or gap.
- A spatula, or similar instrument, can be used to gently compact the seal and ensure a smooth finish.

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Packaging & Storage:

QuelStop Intumescent Acrylic Sealant is supplied in disposable cartridges, packaged in cardboard boxes and must be stored in ventilated, cool and dry conditions.

Recommended temperature ranges for storage and application are between +5 °C and +35 °C.

Health & Safety:

QuelStop Intumescent Acrylic Sealant should be handled and applied wearing appropriate protective clothing, including gloves, dust mask, safety glasses, to guard against dust inhalation, eye and skin irritation.

For further information, please refer to the Material Safety Data Sheet, available on request.