

## FIRESTOP Ultra Sealant

**FIRESTOP** Ultra Sealant is a fire-rated, water-based acrylic sealant designed for indoor and outdoor applications for joints or service penetrations that require fire-stopping. When exposed to fire, FIRESTOP Ultra Sealant expands to create a solid plug, effectively blocking fire spread through service apertures or linear gaps in fire-rated walls, floors, or ceilings. FIRESTOP Ultra Sealant is UV and water resistant and has excellent flexibility and non-slump properties. It is also non-drooping and tested for various indoor and outdoor applications.



### KEY CHARACTERISTICS:

**High-Performance Sealant:** This sealant offers flexibility in construction and can handle up to 20% joint movement, ensuring durability and adaptability.

**Environmentally Friendly:** Features a low VOC content (8g/L), aligning with Green Star project standards.

**Good Adhesion:** Provides robust bonding with a wide range of construction materials like steel, timber, concrete, glass, and plasterboard.

**User-Friendly Application:** Can be easily applied, smoothed, and finished.

**Resistant to Weather and UV:** Exhibits resilience against UV rays and weather conditions and is suitable for indoor and outdoor applications.

**Safe and Non-toxic:** Water-based, non-flammable, and non-hazardous composition makes it a safe choice for various environments.

**Compatibility with Paints:** Can be painted over with water-based paints, allowing for aesthetic versatility.

### TECHNICAL DATA

Colour	Concrete matt grey & white
Viscosity	800,00-1.2million cps TF/5/20°C
Skin formation, superficial curing	30-45min
Curing time	Seven days or more – dependent on the joint depth
Paintable	6-8 hours after application
Joint movement	±20%
Application, t°C range	+5°C to +35°C
Service t°C	-10°C up to 80°C
Shelf life	12 months

### FIRESTOP Ultra Sealant: Tested joint designs

Joint width (mm)	Joint depth (mm)
10	10
20	10
30	15
40	20
50	25

**Recommended application:**

- Sealing interior & exterior joints between concrete, plasterboard, blockwork, fibre cement board, Hebel panels, Speedwall® and brick walls.
- Firestopping service penetrations: pipes, cable, cable bundles and conduits.
- Can serve as an element of a fire-stopping system to protect duct penetration.

**Guidelines for applying FIRESTOP Ultra Sealant:****Preparing the surface:**

Ensure that the surface where FIRESTOP Ultra Sealant will be applied is clean, dry, and debris-free.

If contaminants are present, they should be removed entirely using appropriate chemical or mechanical methods, as recommended by the chemical product manufacturer. Proper cleaning is crucial to prevent any issues with the sealant adhering to the surface.

It's essential to design joints so that FIRESTOP Ultra Sealant adheres to both sides of the joint. A backing rod is recommended but optional.

**Preparing a sealant gun:**

**For sausages:** Cut the end of the sausage and attach the sausage barrel gun nozzle over this cut end. Insert the sausage into the barrel gun's housing and attach the nozzle head securely.

**Joint preparation:** Insert an appropriate-sized backing rod into the joint. The rod size should match the width of the joint you are sealing.

**Application process:** Position the tip of the gun towards the joint and apply FIRESTOP Ultra Sealant steadily, ensuring the joint is filled. This will prevent voids, which can compromise the strength and integrity of the sealed joint.

Aim to tool the joint within 15 minutes of application for a smooth finish. Any excess material should be promptly cleaned up with a damp cloth.

**Post-application care:** Protect the freshly applied FIRESTOP Ultra Sealant from water exposure until it has had sufficient time to cure properly.

**Clean up:** Clean tools and sealant gun. Dispose of used sausages.

**FIRESTOP Ultra Sealant curing time:****Factors influencing cure time:**

- The curing process for FIRESTOP Ultra Sealant varies depending on several environmental factors. Key influences include the ambient temperature and humidity, the porosity of the substrate where it is applied, and the size of the sealed joint.

**Typical cure time expectations:**

- Generally, a joint sealed with FIRESTOP Ultra Sealant will develop firm skin within 2-3 hours. Complete curing, however, can take up to seven days. This duration is subject to change based on the thickness of the joint and prevailing weather conditions.
- Expect the cure time to extend beyond seven days for joints with a thickness or depth exceeding 10-15mm.
- In lower temperatures or high humidity conditions, such as in cold or very humid climates, the curing process may take longer than seven days.

**Shelf life:**

FIRESTOP Ultra Sealant maintains its quality for at least 12 months, provided it is stored in its original sealed containers and kept at a stable temperature of around 20°C.

**Typical cure time expectations:**

- To preserve the integrity of FIRESTOP Ultra Sealant, store the containers in a place shielded from direct sunlight. The ideal storage temperature range is between 5°C and 35°C.
- It is crucial to avoid freezing the product, so ensure it is not stored in environments where temperatures may drop below freezing.