

TECHNICAL DATA SHEET

KALI 900 FLAME GUARD ACRYLIC FIRESTOP (INTUMESCENT)



Product Description

KALI 900 Intumescent Acrylic Firestop Sealant is a single-component, non-sag, acrylic-based sealant engineered for sealing construction joints and service penetrations in plasterboard, concrete, and masonry wall assemblies. Upon curing, KALI 900 forms a durable, flexible seal designed to prevent the transmission of fire, smoke, and sound, making it suitable for applications requiring high-performance fire-stopping and acoustic sealing text.

Fire Resistance & Safety Certifications

- Fire Resistance Classification: UL 94 HB (Horizontal Burn)
- The KALI 900 Firestop Sealant has been independently tested by SGS according to the UL 94-2013 Rev.9-2018 standard, achieving a UL 94 HB classification. This confirms the product:
 - Exhibits slow-burning properties when exposed to flames.
 - Demonstrated a zero burning rate during testing, ensuring maximum safety in fire-prone areas.
 - Provides effective protection by self-extinguishing before the flame reaches critical points, reducing the risk of fire spread.
- Test Conditions:
 - Sample Size: 127mm × 13mm × 1.26mm
 - Curing Time: 5 days at 23°C
 - Test performed under (23±2)°C and (50±5)% relative humidity.

Technical Features

- Paintable and Water-Based: Formulated for ease of application, KALI 900 is compatible with standard paints and provides a smooth finish without requiring special primers.
- Versatile Use: Optimized for interior and exterior environments, maintaining performance under varying atmospheric conditions.
- High Fire Resistance: It is certified fireproof for up to 4 hours (following ASTM E814/UL 1479 or EN 1366-3), providing robust passive fire protection across various construction assemblies.
- Single-Component Formulation: No mixing or special preparation is required, ensuring rapid deployment with minimal onsite labor.
- Superior Sealing Performance: Designed to form an effective barrier against smoke and gases, maintaining the integrity of fire-rated partitions.
- Non-toxic, Odorless: Contains no harmful VOCs or solvents, making it safe for use in enclosed spaces without causing odor concerns.
- Joint Coverage: It is suitable for filling expansion joints and penetrations up to 50mm in width, providing high flexibility and elongation to accommodate movement without compromising the seals.



Applications

- Fire rated joints
- Aerated Concrete Sealing
- Mechanical and Electrical service penetrations such as conduits, busducts, ducts, and metal pipes that traverse fire-rated walls, floors, and ceilings.
- Plasterboard Assemblies



BLANK
OPENING



BOTTOM OF
WALL



HEAD OF
WALL



WALL TO
WALL



FLOOR TO
FLOOR



FLOOR TO
WALL



METAL
PIPE



PLASTIC
PIPE



DUCT



BUSWAY



CABLES



CABLE TRAY



MULTI PEN

PARAMETER	VALUE	TEST STANDARD
Specific Gravity	1.60 ± 0.03 g/cm ³	ASTM D 792
Tack Free-Time	15-30 mins at 25°C, 50%R.H.	ASTM D 679-03
Shore A Hardness	40 ± 5	ASTM D 2240
Elongation at Break	> 100%	ASTM D 412
Tensile Strength	≥ 0.4 N/mm ²	ASTM D 412
Volume Shrinkage	10% - 15%	ASTM D 412
APPLICATION WIDTH	APPLICATION DEPTH	COVERAGE PER 300ML
5mm	3mm	20 meters
10mm	5mm	6 meters
15mm	8mm	2.5 meters
20mm	10mm	1.5 meters
25mm	12mm	1 meter