

KOROK®

MS FIRE SEAL



KOROK MS Fire Seal is a single component hybrid sealant. It has high performance with fast, neutral and odourless curing, resulting in a permanently elastic fire resistant joint.

KOROK MS Fire Seal has great durability baked into its formulation and will withstand UV, moisture and temperature changes without degrading in performance. It does not contain isocyanates or solvents.

FEATURES & BENEFITS

- High elasticity and movement capability ($\pm 25\%$).
- Silicone, isocyanates and solvent free. It will not emit halogenated by-products under fire conditions.
- Fast curing with nearly no shrinkage.
- Non-corrosive.
- Excellent adhesion to a wide range of materials.
- Very good UV, weather and ageing resistance.
- Easy to apply, even in low temperatures.
- 4 hour fire rating according to EN1366-4 & EN1366-3.

APPLICATION

- KOROK MS Fire Seal is approved for use with KOROK systems.

**TECHNICAL
DATA
SHEET.**

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PROPERTIES

BASE	Hybrid polymers	
CONSISTENCY	Non-slump paste	
COLOURS	Grey	
SPECIFIC GRAVITY	Approx. 1,37 ± 0,03 g/ml	ISO 2811-1
TACK FREE TIME	Approx. 40-50 minutes (at 23 °C; 50% R.H.)	OQ.06-internal
SKIN FORMING TIME	Approx. 70 minutes (at 23 °C; 50% R.H.)	OQ.16-internal
CURING RATE	Approx. 2-3 mm/24 hr.	OQ.18-internal
RESISTANCE TO FLOW	0 mm (at 5 °C and 50 °C)	ISO 7390
ELASTIC RECOVERY	> 80% (at 100% elongation)	ISO 7389
MOVEMENT CAPABILITY	± 25%	ISO 11600
LOSS OF VOLUME	< 5%	ISO 10563
SHORE A HARDNESS	42	ISO 868
TOTAL VOC CONTENT	Approx. 22 g/l	SCAQMD rule 1168
APPLICATION TEMPERATURE	Between +5 °C to +40 °C	ASTM D3960
SERVICE TEMPERATURE	-40 °C to +90 °C	
TENSILE PROPERTIES		
ISO 37 (2MM THICKNESS, S2 DUMBBELLS, 7 DAYS 23 °C;50% R.H.)		
E-MODULUS 100%	0,90 MPA	
TENSILE STRENGTH	3,50 MPA	
ELONGATION AT BREAK	750 %	
ISO 8339 (12X12X50 MM JOINT, 28 DAYS, 23 °C;50% R.H.)		
E-MODULUS 100%	0,60 MPA	
TENSILE STRENGTH	1,50 MPA	
ELONGATION AT BREAK	> 500 %	

These values may vary depending on environmental factors such as temperature, moisture, and type of substrates. The time until complete curing may be extended at lower temperature, lower humidity or increasing film thickness.

PRODUCT CERTIFICATIONS

KOROK MS Fire Seal meets the following specifications:

- ISO 11600-F 25HM
- CE marking: EN 15651-1: F-EXT-INT-CC
- FIRE RESISTANCE classification: 4 hours according to EN:13501-2
- Tested according to EN:1366-4 "Fire resistance tests for service installations - Part 4: Linear joint seals" (Equivalent to BS 476, Part 20)
- REACTION TO FIRE: Class E according to EN:13501-1.

STORAGE AND SHELF LIFE

The shelf life is 12 months in its unopened original packaging, in dry conditions and protected from direct sunlight at temperatures between +5 °C and +25 °C.

PACKAGING

600ml sausage (20/carton)

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