

product	Firetect® Graphite sealant
description	graphite based acrylic mastic, highly intumescent
intended use	service closure for structural openings for pipe and cable penetrations, to form a penetration seal in case of fire to reinstate the fire resistance of fire compartments
certification	tested and certified by ETA-14/0273

directions for use	
important	- application must follow DoP No. CPR-14/0273-graphite - constructive element must be classified acc. EN 13501-2 for the required fire resistance period
equipment	caulking gun
surface preparation	- ensure that penetration services are firmly anchored with constructive element on either side; support services; support distance: see principle detail - the penetration opening must be clean, dry and degreased; remove any debris and dust - if aperture >30mm, use PA board; cut out service diameter and press board tight-fit in opening
application	structural openings for pipe penetrations - apply on 2 sides (walls + floors) - apply joint seal IN the penetration opening - apply joint detail acc. application + configuration (see principle detail); in general: joint width: min. 10mm, max. 65mm (walls); min. 15mm, max. 30mm (floors) joint depth: min. 25mm; if required, use rock wool backing - avoid trapping air - fasten glass wool or rock wool individually (not wrapped!) with steel wire structural openings for cable penetrations - apply on 2 sides (walls + floors) - apply joint seal IN the penetration opening - apply joint detail acc. application + configuration (see principle detail) - avoid trapping air note with cable trays, coat back is not required for cables + trays + perimeters in PA board
finish & maintenance	- avoid contact with water during curing - KLF recommends to label each fire seal with a unique ID in a (photo) log file - routine inspections on damage and repairs ensure sound fire protection management

additional product info		Firetect® is a registered brand of KLF
charts field of application:		© KLF Building Products disclaimer
- PE/PP/PVC	- PE-Xa	
- PP-R	- copper	
- PP-MD	- steel	
- PP-MX	- cable trays	
- aluPE-X	- cable bundles	
declaration of performance:		  
- full DoP version: declaration of performance + ANNEX BWR2 + ANNEX A + ANNEX B; upon request		
- web DoP version: declaration of performance + ANNEX BWR2; other info can be downloaded at firetect.eu/download		

specifications

Firetect® Graphite sealant

material	graphite based acrylic mastic with fire retardant fillers, highly intumescent
colour	grey
fire resistance	EI 20 up to EI 240, depending on application and configuration
 tested acc.	EN 1366-3
classified acc.	EN 13501-1: Class F; EN 13501-2
acoustic performances	30 dB up to 60 dB, depending on application and configuration
 tested acc.	EN 10140-2 + ISO 717-1
environmental performance	EMICODE, Indoor Air Comfort Gold, M1, AgBB, Blue Angel, Belgian Regulation, French VOC/CMR
 product credits for	BREEAM, LEED v4
VOC tested acc.	ISO 11890-2 / ASTM D6886
formaldehyde tested acc.	EN 717-1 [§] : E1
release of dangerous substances	none: non-formaldehyde, non-asbestos; SVHC free
EPD	reg.no S-P-0
use category	Z ₂ internal use
application conditions	between +5 °C and +30 °C, max. 70% RH
adhesion	to most common construction materials: plaster, concrete, metals, plastics etc.
mix ratio	ready to use
dry and curing time	skin after ± 15 minutes, curing depending on joint size and environmental conditions
cleaning equipment	after use, immediately clean with fresh water; remove dried product mechanically
packaging	cartridge 310ml; 25 cartridges per carton, 64 cartons per pallet; other packaging upon request
storage	store dry, between +5 °C and +30 °C, max. 70% RH, avoid condensation and UV
shelf life	approx. 12 months in unopened original packaging, if stored acc. instructions
activation temperature	approx. +150 °C
flash point	> +100 °C
pH	approx. 8,0
specific gravity	approx. 1,36
practical coverage	allow loss factor

limitations

- this product must be applied **IN** the penetration opening with joint width min. 10mm
- in case of annular space <10mm, use Acrylic or Wrap or pipe collar FMU

transport & storage

- during transport: keep dry and protect from frost; do not stack pallets
- store dry; protect from frost; best kept in cool, dark conditions
- store on level ground; do not stack pallets
- HS code: 32149000



health & safety

- no specific restrictions
- work according to health & safety Directive and use appropriate PPE
- this product is classified as not dangerous under Regulation 1272/2008 and is in compliance with CLP regulations

