






product	<b>Firetect® Graphite sealant</b>
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

<b>directions for use</b>	
	<p><b>important</b> - application must follow DoP No. CPR-14/0273-graphite</p> <p>- constructive element must be classified acc. EN 13501-2 for the required fire resistance period</p>
equipment	caulking gun
surface preparation	<p>- ensure that penetration services are firmly anchored with constructive element on either side; support services; support distance: see principle detail</p> <p>- the penetration opening must be clean, dry and degreased; remove any debris and dust</p> <p>- if aperture &gt;30mm, use PA board; cut out service diameter and press board tight-fit in opening</p>
application	<p><b>structural openings for pipe penetrations</b></p> <ul style="list-style-type: none"> <li>- apply on 2 sides (walls + floors)</li> <li>- apply joint seal <b>IN</b> the penetration opening</li> <li>- apply joint detail acc. application + configuration (see principle detail); in general: <ul style="list-style-type: none"> <li>joint width: min. 10mm, max. 65mm (walls); min. 15mm, max. 30mm (floors)</li> <li>joint depth: min. 25mm; if required, use rock wool backing</li> </ul> </li> <li>- avoid trapping air</li> <li>- fasten glass wool or rock wool individually (not wrapped!) with steel wire</li> </ul> <p><b>structural openings for cable penetrations</b></p> <ul style="list-style-type: none"> <li>- apply on 2 sides (walls + floors)</li> <li>- apply joint seal <b>IN</b> the penetration opening</li> <li>- apply joint detail acc. application + configuration (see principle detail)</li> <li>- avoid trapping air</li> </ul> <p><b>note</b> with cable trays, coat back is <b>not</b> required for cables + trays + perimeters in PA board</p>
finish & maintenance	<p>- avoid contact with water during curing</p> <p>- KLF recommends to label each fire seal with a unique ID in a (photo) log file</p> <p>- routine inspections on damage and repairs ensure sound fire protection management</p>


<b>additional product info</b>	<p>Firetect® is a registered brand of KLF</p> <p>© KLF Building Products</p> <p><a href="#">disclaimer</a></p>
charts field of application:	<ul style="list-style-type: none"> <li>- PE/PP/PVC</li> <li>- PP-R</li> <li>- PP-MD</li> <li>- PP-MX</li> <li>- aluPE-X</li> <li>- PE-Xa</li> <li>- copper</li> <li>- steel</li> <li>- cable trays</li> <li>- cable bundles</li> </ul>
declaration of performance:	<ul style="list-style-type: none"> <li>- full DoP version: declaration of performance + ANNEX BWR2 + ANNEX A + ANNEX B; upon request</li> <li>- web DoP version: declaration of performance + ANNEX BWR2; other info can be downloaded at <a href="http://firetect.eu/download">firetect.eu/download</a></li> </ul>
	 


**specifications**

**Firetect® Graphite sealant**

material	graphite based acrylic mastic with fire retardant fillers, highly intumescent
colour	grey
<b>fire resistance</b>	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
<b>acoustic performances</b>	30 dB up to 60 dB, depending on application and configuration
 tested acc.	EN 10140-2 + ISO 717-1
<b>environmental performance</b>	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 <sup>§</sup> : E1
release of dangerous substances	none: non-formaldehyde, non-asbestos
use category	Z <sub>2</sub> 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

<b>limitations</b>	- this product must be applied <b>IN</b> the penetration opening with joint width min. 10mm - in case of annular space <10mm, use Acrylic or Wrap or pipe collar FMU
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<b>transport &amp; storage</b>	- 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	
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<b>health &amp; safety</b>	- 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	
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