

**DOSSALACK TUNNEL**

**Main characteristics (technical specifications)**

Hard and light pasty product to protect concrete supports for tunnels (slabs) against hydrocarbide type fires.  
Absorbs the support dilatation without cracking.

**Can be washed:**  Low/medium/high pressure **Can be painted:**

**Information on the composition**

Material consisting of hydraulic binders (cement basis), light pulverulents and specific additives (no asbestos)

**Fire Test reports (cross the relevant boxes)**

ISO (1050°C 2h 1160°C 4h) <input type="checkbox"/>	HC (1100°C, ref. EC1.1.2) <input type="checkbox"/>	HCM (1300°C, HC*1300/1100) <input type="checkbox"/>
RABT/ZTV (Germany) (1200°C) <input type="checkbox"/>	RWS (1350°C) <input type="checkbox"/>	Others : <input type="checkbox"/>

Characteristics of the tested samples, report number and possible comments:

TNO tests October 1999 46 mm thick protection of DOSSALACK TUNNEL applied onto a 16 cm thick concrete slab under RWS curve (report 1999-CVB-R2529)  
Mortar applied in 3 18 mm-thick layers on a primary fastening layer. Galvanised wire mesh fixed to the plate by steel dowels.

**Application procedures** **Board**  **Mortar**

Power supplied in ready-to-use bags, to be mixed with water for application.  
Mechanically sprayed onto the support using a spraying machine.  
Ambient temperature and/or support temperature  $\geq 5^{\circ}\text{C}$  when spraying.  
Fine plaster type finishing. "Broken white" coloured. Can be painted with a paint compatible for cement support.

**Present application field**

New product replacing DOSSALACK 800

Resources, territories and habitats  
 Energy and climate Sustainable development  
 Risk prevention Infrastructures, transports and sea

**Here for the future**

Possible use in tunnels	Civil engineering works references
<p>Any support in tunnel concrete: plane or ribbed plates, slabs, poles, walls, segments,...</p>	
Physical and thermal data	
<p><u>Reaction to fire</u> (French/European classification): <b>M0</b></p> <p><u>Main thermal data: (at 20°C and possibly variation with temperature)</u></p> <ul style="list-style-type: none"> <li>• Thermal conductivity <math>\lambda</math> (W.m<sup>-1</sup>.K<sup>-1</sup>) =</li> <li>• 2 out of the 4 following values</li> <li>○ Specific heat <math>c</math> (J. kg<sup>-1</sup>.K<sup>-1</sup>) =</li> <li>○ Density <math>\rho</math> (kg/m<sup>3</sup>) = <b>841</b></li> <li>○ Volumic specific heat <math>C</math> (J.m<sup>-3</sup>.K<sup>-1</sup>) = <math>\rho c</math> =</li> <li>○ Diffusivity <math>a</math> (en m<sup>2</sup>.s<sup>-1</sup>) = <math>\lambda/\rho c</math> =</li> <li>• Resulting emissivity (adimensionnall) : <math>\epsilon_{res}</math> =</li> </ul>	<p><u>Other thermal data :</u> Reflection coefficient (adimensionnall) : or Absorption coefficient (adimensionnall) :</p> <p><u>Main mechanical data:</u> E modulus (Mpa) = Compressive strength (Mpa) =</p> <p><u>Complementary data:</u> Porosity : Shore hardness : PH</p>
Durability	
<p>Non toxic, antifouling, resisting to vermin and rodents, guaranteed asbestos-free</p>	
Product and company identification/Commercial name/ Applicators	
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Documentation/References	

