# 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)

<table>
<thead>
<tr>
<th>Test</th>
<th>Temperature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISO</td>
<td>(1050°C 2h 1160°C 4h)</td>
<td>□ HC  (1100°C, ref. EC1.1.2)</td>
</tr>
<tr>
<td>RABT/ZTV (Germany)</td>
<td>(1200°C)</td>
<td>□ RWS (1350°C)</td>
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</tbody>
</table>

## Application procedures

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 >= 5°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

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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.
### Possible use in tunnels

Any support in tunnel concrete: plane or ribbed plates, slabs, poles, walls, segments,…

### Civil engineering works references

### Physical and thermal data

**Reaction to fire**
*(French/European classification): M0*

**Main thermal data: (at 20°C and possibly variation with temperature)**

- Thermal conductivity $\lambda$ (W.m$^{-1}$.K$^{-1}$) = [value]
- 2 out of the 4 following values
  - Specific heat $c$ (J.kg$^{-1}$.K$^{-1}$) = [value]
  - Density $\rho$ (kg/m$^3$) = 841
  - Volumic specific heat $C$ (J.m$^3$.K$^{-1}$) = $\rho c$
  - Diffusivity $a$ (en m$^2$.s$^{-1}$) = $\lambda / \rho c$
- Resulting emissivity (adimensionnall) $: \varepsilon_{\text{res}} =$

**Other thermal data:**
- Reflection coefficient (adimensionnal) :
- Absorption coefficient (adimensionnal) :

**Main mechanical data:**
- E modulus (Mpa) = [value]
- Compressive strength (Mpa) = [value]

**Complementary data:**
- Porosity :
- Shore hardness :
- PH

### Durability

Non toxic, antifouling, resisting to vermin and rodents, guaranteed asbestos-free

### Product and company identification/Commercial name/ Applicators

Groupe DAUSSAN  
29-23 route de Rombas  
57147 WOIPPY  
FRANCE

Tel : +33 387 32 52 80  
Fax : +33 387 32 03 03

### Documentation/References

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www.cetu.developpement-durable.gouv.fr