FRANCE

Tunnels Study Center



	FENDOLITE M I	I	
Main characteristics	(technical specification	s)	
Pre-mixed insulating produ	ict, sprayed, resistant, low den or any type of internal or extern	nsity, su	
Can be washed: 🔲 Lo	w/medium/high pressure		Can be painted: \Box
Information on the co			
Product consisting of Portla	and cement and vermiculite		
Fire Test reports (cros	s the relevant boxes)		
ISO (1050°C 2h 1160°C 4h)	HC (1100°C, ref. EC1.1.2	2) 🗆	HCM (1300°C, HC*1300/1100)
RABT/ZTV (Germany) (1200°C)	RWS (1350°C)		Others :
Characteristics of the tester	d samples, report number and	possib	le comments:
 A test under HCM re on 20 cm-thick conc 	crete plate protected by 27 and egime was conducted at TNO i rete plates protected by 23 et p. 62.6°C and 44.1°C)	in Octo	ber 2001 (2001-CVB-R04521
Application procedure	S		Board 🗆 Mortar
several layers with CAFC float-finish. The maximal layer thickness	e product is mixed with pota O agreed machine with prote ss is 8 mm or 15 mm with stee with an alkyde-based primary AFCO PSK 101 or similar.	ective v el wire r	wiring, then smoothing and mesh.
Present application fie	əld		
Can be applied on RC seg Can be applied on steel str	ments		

Here for

the future

www.cetu.developpement-durable.gouv.fr 25, avenue F. Mitterrand – case n°1 – 69674 BRON cedex – FRANCE - Tél : +33 472 14 34 00 – Fax : +33 472 14 34 30

Possible use in tunnels	Civil engineering works references	
Tunnel sidewalls, vaults and ceilings	Oresund tunnel (DN), Westerschelde tunnel (NL), Limfjord tunnel (DN), prevesa Aktion (GR), Perth (AUS), Boston harbour (USA), Hong Kong Mass transit (CHI), Botlek pipe (NL), Vienna City Tunnel (A), Jingyazhong Tunnel (China), Monserrat Airport tunnel (Montserrat), Groenhart tunnel (NL)	
Physical and thermal data		
Reaction to fire	Other thermal data :	
(French/European classification): M0	Reflection coefficient (adimensionnal): or	
Main thermal data: (at 20°C and possibly variation with temperature)	Absorption coefficient (adimensionnal) : 0.35	
 Thermal conductivity λ (W.m⁻¹.K⁻¹) = 0.19 2 out of the 4 following values 	<u>Main mechanical data:</u> E modulus (Mpa) = 566 Compressive strength (Mpa) = 3.1	
 O Specific heat c (J. kg⁻¹.K⁻¹) = 970 O Density ρ (kg/m³) = 775±15% 	<u>Complementary data:</u> Porosity :	
 Volumic specific heat C (J.m⁻³.K⁻¹) = pc= 	Shore hardness: 40 Shore D Adherence/coherence: 168 kPa	
0 Diffusivity a (en m ² .s ⁻¹) = $\lambda/\rho c$ =		
 Resulting emissivity (adimensionnall) : ε_{res} = 		
Durability		
Product and company identification/C - M.MENGUY CAFCO international	Commercial name/ Applicators	
3 rue de l'industrie L 3895 FOETZ Grand Duché du Luxembourg tel : +352 55 17 17 fax :+ 352 55 27 99		
- M.NELSON CAFCO international 3 rue de l'industrie L 3895 FOETZ Grand Duché du Luxembourg tel : +352 55 17 20 fax : +352 55 27 99		
Documentation/References		
CAFCO international CAFCO international/tunnels/Blast Overpressure/CD CAFCO <u>http://www.cafcointl.com/</u>		



www.cetu.developpement-durable.gouv.fr

Update : 27/06/2005