



From Project to Jobsite

STABIL-tec® FIRE

STABIL-tec® FIRE IDROFUGATO

SUPER LIGHT-WEIGHT RENDER WITH ANTI-FIRE AND THERMO-INSULATING, FIREPROOF, ANTI THERMAL SHOCK.

Description STABIL-tec® FIRE is a sprayable render for thermal insulation and to protect against fire of new and existing structures in concrete. The most particular properties are :

- HEAT SHIELD
- FIRE PROTECTION
- THERMAL INSULATION
- ANTI THERMAL SHOCK

STABIL-tec® FIRE is able to partially prevent the mechanical and structural damage of the structure when exposed to fire, and to prevent the 'spalling' of the concrete cover of the structure below.

The product can also be applied for the protection against fire of walls. The thickness of the material applied depends on the degree of protection specified. The render is easy to be repaired even after subjected to fire damage. Simply remove the damaged parts and apply a new layer of the render, directly in contact with the existing layer.

In case the repair of the existing structure has to be performed, it is advisable to apply the spray concrete first HFE tec® SB 80, prior to STABIL-tec® FIRE. The formulation STABIL-tec® FIRE IDROFUGATO is designed for resistance to both fires at very low temperatures below zero and thermal shock with cold temperatures.

Method of use Prepare and clean the surface, free of loose particles or dust, greases or dirt. Wet the substrate thoroughly: if the weather is warm, or there is exposure to the sun.

Apply after total absorption of the water and without water residue "glossy" visible on the surface.

Interpose suitable network in the areas of conjunction between various structures. For the best adhesion:

- If relevant apply a key-coat of rough sand-cement plus RMB (Resina per Malte Bicomponenti) for adhesion on substrates with low cohesion. In the case of masonry substrates strongly impregnated with salts use MACROPORE RINZAFFO.

RECOMMENDED MIXING PROCEDURE

Add mixing the powder (comp. A of 8 kg) to the liquid (resin RMB - 6 kg) until the desired consistency is obtained . Check the weight with a graduated recipient. It is recommended to obtain a WET density of 900 g/liter.

APPLICATION

Do not apply where there may be puddles of water.

Apply by hand or spray. We recommend a thickness of about 2 cm per layer. Once the required thickness obtained, LEVEL SLIGHTLY WITHOUT CRUSHING.

Remark Information according to 2003/53/CE :

Storage: Product can be kept for 12 months in the unopened original packaging, stored in dry and protected area, at normal ambient temperatures between +5 and +35°C. Do not use any damaged or opened bags if they contain already lumps of the product. Avoid frost of the liquid B component.



**Systems
thermal
insulation**



Certified Quality System since **FEBRUARY 1993**

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Technical characteristics (typical values)	Compressive strength (UNI EN 196/1)	N/mm ²	6-8 (28 days)
	Flexural strength (UNI EN 196/1)	N/mm ²	3,8-4,5 (28 days)
	Modulus of elasticity (UNI 6556)	N/mm ²	1800 (28 days)
	Fracture energy	N/m	450 (28 days)
	Adhesion to concrete	N/mm ²	> 0,6 (28 days)
	Density dry	g/l	650
	Fresh density after mixing	g/l	900
	Thermal conductivity λ	W/mK	0,2
	T.D.I (difference in temperature measured in depth between 1 cm and 3 cm during the exposure to fire)	-	72%
	Type of mortar		
Number of components			two
Thickness advised	cm	2÷5 cm	
Application			Hand/spray
Wet curing			NO
Protected curing			SE
Setting time			Normal
Hardening			Normal
Compensation shrinkage			Si++
Consumption	Kg/m ² /mm	0,9	

$$1\text{N/mm}^2 = 1\text{MPa} = 10,19\text{ Kg/cm}^2$$

* Questi prodotti possono essere confezionati anche con l'aggiunta di inibitori di corrosione MuCis®

① Resistenza gelo-disgelo in presenza di sale - SIA 162/1791 gr/mq. (< 600 gr/mq = molto alta = requisito per cordoli autostradali)

② Permeabilità ai cloruri - Coulomb FHWA/RD/81 (100÷1000 Coulomb = molto bassa)

SE

In funzione delle condizioni applicative (pioggia - sole - temperatura - umidità - ecc...)



Very High Durability Repair & Prevention Systems

Sistemi di riparazione e prevenzione anticorrosione ad elevatissima durabilità



Very High Durability Reinforced Concretes

Calcestruzzi armati anticorrosione ad elevatissima durabilità



Multiple Corrosion Inhibiting Synergies
Sinergie multiple per l'inibizione della corrosione delle barre d'acciaio nei calcestruzzi armati

AED

Altissima Energia di Deformazione

Safety indications

Read carefully the safety indications on the packaging, or consult the relevant Material Safety Datasheet of this product.

The above data are based on our actual and most experienced practical and laboratory knowledge and the results are collected from application of the product in different situations. Tecnochem Italiana does not assume any responsibility regarding inadequate or negative performance as a result of improper use of the product or for defects deriving from factors or elements other than the quality of the product including improper storage. The technical characteristics and performance mentioned in this datasheet are updated periodically. The revision dates and number of revision of the datasheets are listed in the table below. Eventual variations are traceable on our website www.tecnochem.it where the most updated datasheets can be retrieved.

Date edition :01/2007
Date revision : 08/2010

Nr. rev.:4

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