

## Cafco FENDOLITE® MII Product Data Sheet Non-reactive fire protective coating



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## General description

Cafco FENDOLITE® MII is a spray applied, single package factory controlled premix, based on vermiculite and Portland cement.

Cafco FENDOLITE® MII produces a monolithic coating able to withstand thermal shocks experienced typically in a high intensity hydrocarbon fire. Concrete structures in particular, will be protected from explosive spalling when protected using Cafco FENDOLITE® MII.

Although low in density, thus significantly reducing dead load, Cafco FENDOLITE® MII is highly durable and will not crack or spall under mechanical impact.

Cafco FENDOLITE® MII is used for application to construction elements such as concrete or individual steel sections, particularly where off-site application is required. It is suitable for exterior use on structures and vessels in the oil, gas, petrochemical and power industries, and for refurbishment or upgrading of existing tunnel structures.

## Fields of application

The product is suitable for internal and external use for fire protection of:

- concrete structures
- steel structures
- vessels in the oil and gas, petrochemical and power industries
- tunnel structures

## System advantages / customer benefits

- structures protected with Cafco FENDOLITE® MII can provide fire resistance for up to 240 minutes
- does not release toxic or hazardous fumes
- the surface may either be spray textured, roller or float finished

## Packaging

- 20 kg plastic bags
- 50 bags/pallet

Subject to change.

## Storage requirements

- store in cool and dry conditions
- protect from moisture
- shelf life of original sealed containers at least 12 months
- once opened, bags should be finished swiftly

## Safety instructions

- Keep out of reach of children.
- Avoid contact with food or beverages
- Please refer to the safety data sheet for additional advice

## Properties and performance

<b>Colour and finish</b>	Off-white with a monolithic spray texture
<b>Alkalinity</b>	12.0 - 12.5 pH
<b>Sound absorption</b>	0.35 Noise Reduction Coefficient (NRC)
<b>Cure</b>	By hydraulic set
<b>Initial set</b>	2 to 6 hours at 20°C and 50% RH
<b>Minimum practical thickness</b>	8mm when unreinforced, 15mm when reinforced
<b>Theoretical coverage</b>	62m <sup>2</sup> /tonne at 25mm thickness
<b>Density</b>	775kg/m <sup>3</sup> ± 15% in accordance with ASTM E605
<b>Durometer hardness</b>	40 (Shore D) in accordance with ASTM D2240
<b>Compressive strength</b>	4531kPa (accordance with ASTM E761)
<b>Combustibility</b>	Non-combustible in accordance with ASTM E136 and BS 476: Part 4
<b>Surface burning</b>	0 flame spread, 0 smoke developed
<b>Deflection effect</b>	No cracks or delamination or spalling
<b>Impact resistance</b>	No cracking, delamination or spalling in accordance with ASTM E760
<b>Thermal conductivity</b>	1.5 BTU in/hour ft <sup>2</sup> (0.216W/mK) at 24°C
<b>Corrosion resistance</b>	Does not promote corrosion of steel.
<b>Fungal resistance</b>	0 rating - no fungus growth in accordance with ASTM G21

## Test certificate / approval

Cafco FENDOLITE® MII is assessed by Warrington Certification (Certificate CF 5570) and UL-listing. Loadbearing steel, loadbearing concrete elements and loadbearing flat concrete profiled sheet composite elements are tested in accordance with applicable British standards (BS) and US standards (ASTM). Depending on the applied layer thickness and area of application, fire resistance 30 minutes to 240 minutes can be achieved.

## Top Coating

Cafco® TOPCOAT 200 may be used as protection from frequent wash down, long term chemical spills, or for improved resistance to fungal, algal and bacterial growth.



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