



CAFCO® 300

Vermiculite Gypsum Based Wet Mix Spray

construction applications



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 Fire Audits  Fire Paints for Steel & Cables  Fire Sprays for Ducts & Steel  Caulking  Penetration Sealing

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INTRODUCTION

CAFCO® 300 is a spray or trowel applied, single package factory controlled premix, based on vermiculite and gypsum, for internal use.

CAFCO® 300 is a lightweight coating that provides very efficient fire resistance with minimal thickness to steel and concrete frames, metal floor and roof decks, return air plenums and air handling ductwork.

Structures protected with CAFCO® 300 can provide fire resistance for up to 240 minutes.

Building types that will benefit from the use of CAFCO® 300 include a wide range of educational, leisure and entertainment centres, and commercial projects.



Properties and performance

Colour and finish	Off white with a monolithic spray texture
Theoretical coverage	217m ² /tonne at 15mm thickness
Number of coats	One or more as required
Cure	By hydraulic set
Initial set	10 to 15 hours at 20°C and 50% RH without accelerator
Density	310kg/m ³ ± 15% without accelerator, approximately 10% less with accelerator in accordance with ASTM E605.
Bond impact	No cracks or delaminations in accordance with ASTM E760
Air erosion resistance	No erosion in accordance with ASTM E859
Compressive strength	1.22kg/cm ² in accordance with ASTM E761
Deflection effect	No spalling, delamination or cracking in accordance with ASTM E759.
Flame spread	Class 0 as defined by the Building Regulations
Thermal conductivity	0.078W/mK
Corrosion resistance	Does not promote corrosion of steel. However, a primed substrate is recommended for long term corrosion resistance. See Preparation .
pH value	8.0 - 8.5

Structures protected with CAFCO® 300 have undergone fire resistance tests up to 240 minutes in approved independent laboratories to recognised standards throughout the world, including:

- Australia (AS1530: Part 4)
- UK (BS476: Parts 6, 7 and 21)
- USA (ASTM E119)
- France (August 1999 Ministry Decree)
- Belgium (NBN S21-202)
- Germany (DIN 4102: 1977-09 and DIN EN 1363-1:1999-10)
- Harmonised European Standard ENV 13381: Part 4

The fire resistance test results relate solely to the constructions tested and test conditions imposed.

Fire resistance

QUALITY ASSURANCE

Promat manufactures to a quality system in accordance with ISO 9001: 2000 and has received full accreditation to these standards.

Operating to these standards means that all activities, which have a bearing upon quality, are set out in written procedures. Systematic and thorough checks are made on all materials and their usage. Test equipment is subjected to regular checks and is referred back to national standards.

The information given in this data sheet is based on actual tests and is believed to be typical of the product. No guarantee of results is implied however, since conditions of use are beyond our control.

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Please consult your nearest Promat office for specific details pertaining to local conditions.

Preparation	
Typical substrates	Unprimed and primed steel, concrete structural frames, return air plenums and air handling ductwork.
Substrate preparation	The substrate shall be clean, dry and free from dust, loose mill scale, loose rust, oil and any other condition preventing good adhesion. Steelwork and concrete substrates should be covered with CAFCO® SBR bonding latex or Cafoo BONDSEAL® keycoat, prior to the application of CAFCO® 300.
Application	
Initial steps	Application of CAFCO® 300 must be carried out by an applicator recognised by Promat.
Methods	Mix CAFCO® 300 with potable water in a suitable mixer and apply by a spraying machine approved by Promat. CAFCO® 300 may also be float finished using conventional hand tools or spray textured.
Limitations	CAFCO® 300 may be applied when the substrate and air temperatures are at least 4°C and rising, and must be maintained for 24 hours before, during and 24 hours after application. Maximum substrate and air temperature is 45°C. Substrate temperature should be at least 2°C above dew point temperature.

PACKAGING

20kg bags.

STORAGE

Protect from frost, excessive heat (above 45°C) and strong radiant sunlight.

SHELF LIFE

Maximum 6 months.

ENVIRONMENTAL

Do not discharge into drains, watercourses or soil.

