

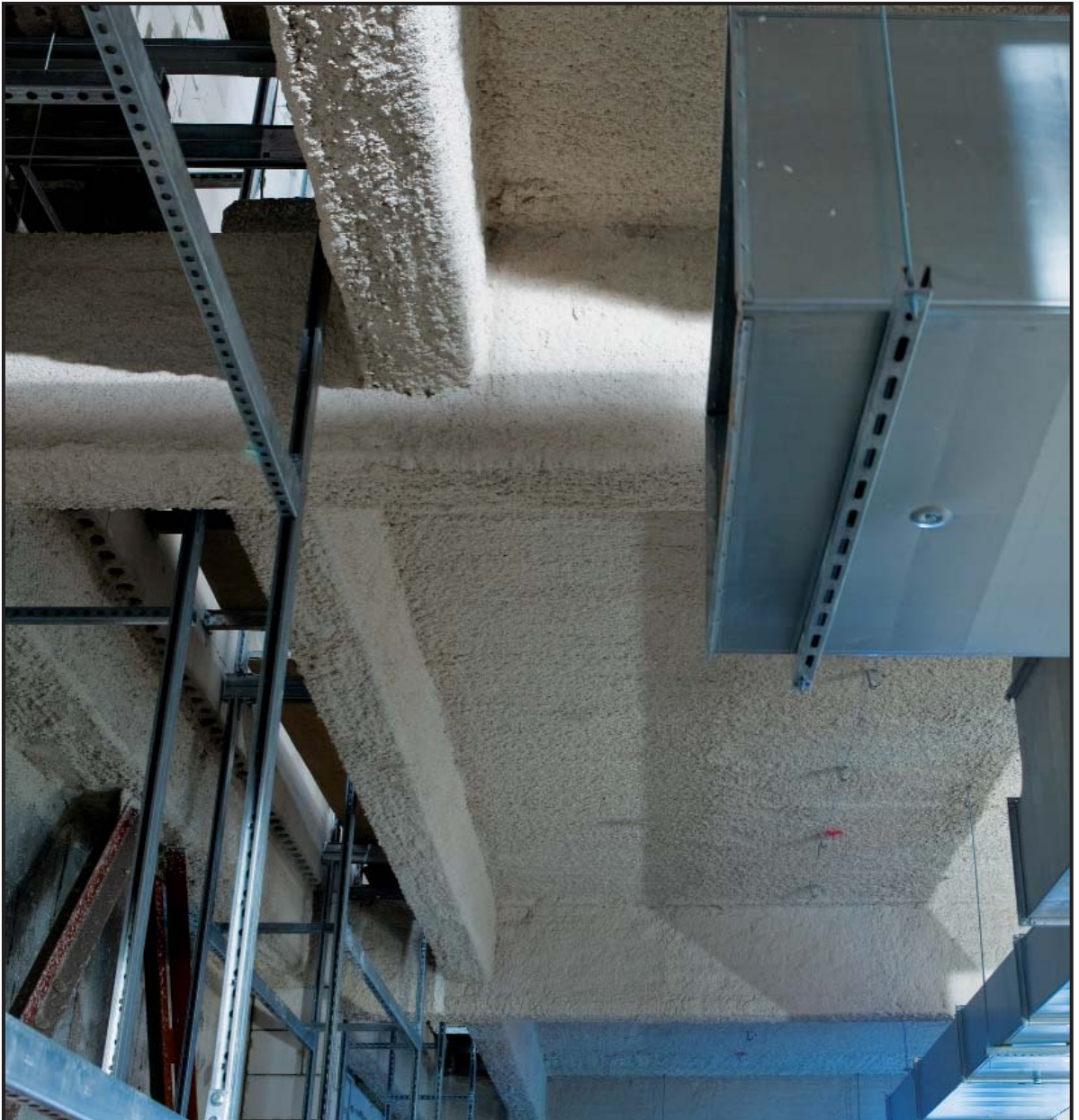
Promat



CAFCO® 400

Vermiculite & Portland Cement Based Wet Mix Spray

construction applications



www.promat-spray.com

CAFCO® 400

Vermiculite & Portland Cement Based Wet Mix Spray

INTRODUCTION

CAFCO® 400 is a Portland cement based, spray applied fire resistive material. It is a medium density wet mix product designed to provide fire protection for structural steel in commercial and high rise construction.

The durable surface of the product makes it well suited for application in areas which may be subjected to higher levels of abuse.

Properties and performance	ASTM method	Standard performance	Tested performance
Surface burning	Tested to ASTM E84		Flame: 0 Smoke: 0 ⁽²⁾
Density	Tested to ASTM E605	22pcf (352kg/m ³) ⁽¹⁾	25pcf (400kg/m ³) ⁽²⁾
Cohesion/Adhesion	Tested to ASTM E736	434psf (20.8kPa) ⁽¹⁾	2850psf (136.4kPa) ⁽²⁾
Deflection	Tested to ASTM E759	No cracks or delamination ⁽¹⁾	No cracks or delamination ⁽²⁾
Bond impact	Tested to ASTM E760	No cracks or delamination ⁽¹⁾	No cracks or delamination ⁽²⁾
Compressive strength	Tested to ASTM E761	7,344psf (351kPa) ⁽¹⁾	12,740psf (610kPa) ⁽²⁾
Air erosion resistance	Tested to ASTM E859	Less than 0.025g/ft ² (0.27g/m ²) ⁽¹⁾	0.000g/ft ² (0.000g/m ²) ⁽²⁾
Corrosion resistance	Tested to ASTM E937	Does not promote corrosion of steel ⁽¹⁾	Does not promote corrosion of steel ⁽²⁾
Sound absorption	Tested to ASTM C423		0.60NRC ½" (13mm) on deck and beam ⁽²⁾
Combustibility	Tested to ASTM E1354	No flaming or heat release ⁽¹⁾	No flaming or heat release ⁽²⁾

⁽¹⁾ Standard performance based on General Services Administration AIA/SC/GSA/07811 except for density, which is based on UL. Refer to UL design for density requirement.

⁽²⁾ Values represent independent laboratory tests under controlled conditions.

CODE COMPLIANCES

CAFCO® 400 satisfies the requirements of the following building codes:

- IBC – International Building Code
- SBCCI – Southern Building Code Congress International
- ICBO – International Conference of Building Officials
- BOCA – Building Officials and Code Administrators International, Inc.
- New York City – MEA

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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MAJOR SPECIFICATIONS

CAFCO® 400 complies with the requirements of the following specifications:

- General Services Administration (GSA): AIA/SC/GSA:07811
- Department of the Navy NAVFACENCOM Guide
- Veterans Administration (VA): H08-1
- US ARMY Corps of Engineers. CEGS-07811

UL FIRE RESISTANCE RATINGS

UL is accredited by the Standard Council of Canada (SCC) as a Certification and Testing Organisation to Canadian Standards and codes.

In all cases, please consult the actual design listing for beam sizes, deck profiles, electrification details, roof insulation types and other construction details. This product is listed as Type PC4C.

HEALTH AND SAFETY

Adequate ventilation must be provided during use. Avoid contact with the skin and eyes by using eye protection, gloves, barrier cream and a face mask.

If the product comes into contact with the skin, wash immediately with soap and water. If the eyes are affected, flush with plenty of water and seek medical attention immediately.

A safety data sheet is available from Promat upon request.

Promat activities are conducted with due regard to all statutory requirements with appropriate safeguards against exposing employees and the public to health and safety risks.

System or component	Ratings	Designs	Details
Floor assemblies – Protected deck	1, 1½, 2 or 3 hours 1, 1½, 2 or 3 hours	D795 G714	
Floor assemblies – Unprotected deck	1, 1½, 2 or 3 hours	D957	
Beam or joist only – Floors	1, 1½, 2, 3 or 4 hours 1, 1½, 2 or 3 hours	N800 N802	
Roof assemblies – Protected deck	1, 1½, 2 or 3 hours 1, 1½, 2 or 3 hours	P751 P750	
Roof assemblies – Unprotected deck	1, 1½ or 2 hours 1, 1½ or 2 hours	P938 P939	
Beam or joist only – Roofs	1, 1½, 2, 3 or 4 hours 1, 1½, 2, 3 or 4 hours	S747* S746	
Columns – W6 x 9 through W14 x 730 pipe and tube steel	1, 1½, 2, 3 or 4 hours	X845	

* Requires material on underside of deck.

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