



آتش پاد سازه ایرانیان
Atash Pad Sazeh Iranian

Promat

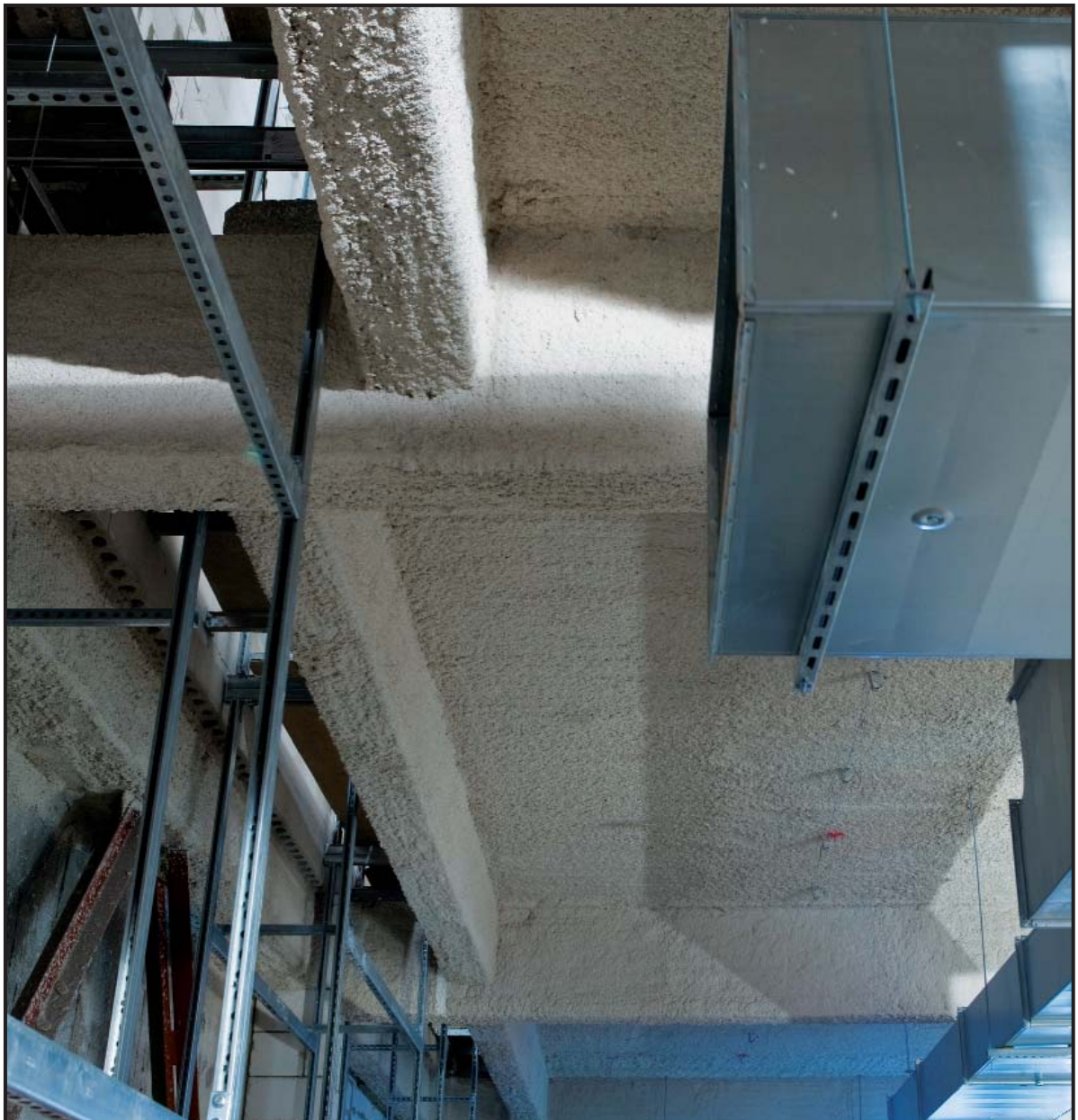


Tehran Office Tel/Fax: +98 21 2211 8391
South Pars Office Tel/Fax: +98 77 3721 4698
www.apsi.ir / www.apsi-co.com
info@apsi.ir

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.

HEAD OFFICE, BELGIUM

Promat International N.V.
Bormstraat 24
2830 Tiselt
Tel: +32 15 718 100
Fax: +32 15 718 109
Email: info@promat
international.com
www.promat-international.com
www.promat-tunnel.com
www.promat-marine.com
www.promat-spray.com

ASIA PACIFIC HEADQUARTERS, MALAYSIA

**Promat International
(Asia Pacific) Ltd.**
Unit 19-02-01
Level 2 PNB Damansara
No.19 Lorong Dungun
Damansara Heights
50490 Kuala Lumpur
Tel: +60 3 2095 5111
Fax: +60 3 2095 6111
Email: spraysinfo@promat-ap.com
www.promat-ap.com

AUSTRALIA

Promat Australia Pty. Ltd.
1 Scotland Road
SA 5031 Mile End South
Tel: 1800 PROMAT
Fax: +61 8 8352 1014
Email: spraysinfo@promat.com.au
www.promat-ap.com

Promat Australia Pty. Ltd.
Unit 1, 175 Briens Road
NSW 2152 Northmead
Tel: 1800 PROMAT
Fax: +61 2 9630 0258
Email: spraysinfo@promat.com.au
www.promat-ap.com

Promat Australia Pty. Ltd.
3/273 Williamstown Road
VIC 3207 Port Melbourne
Tel: 1800 PROMAT
Fax: +61 3 9645 3844
Email: spraysinfo@promat.com.au
www.promat-ap.com

AUSTRIA

Promat Ges.m.b.H.
Seybelgasse 13
1230 Wien
Tel: +43 1 865 4501
Fax: +43 1 865 3600
Email: office@promat.at
www.promat.at

BELGIUM

Promat N.V.
Kuiermansstraat 1
1880 Kapelle-op-den-Bos
Tel: +32 15 713 351
Fax: +32 15 718 229
Email: info@promat.be
www.promat.be

CHINA

Promat China Ltd.
Room 503, Block B, Qi Lin Plaza
13-35 Pan Fu Road
510180 Guangzhou
Tel: +86 20 8136 1167
Fax: +86 20 8136 1372
Email: spraysinfo@promat-ap.com
www.promat.com.cn

Promat North China (Division of Promat China Ltd.)

Room 1507 Building 5
SOHO Xiandaicheng
No.88 Jianguo Road
Chaoyang District
100022 Beijing
Tel: +86 10 8589 1254
Fax: +86 10 8589 2904
Email: spraysinfo@promat-ap.com
www.promat.com.cn

CZECH REPUBLIC

Promat s.r.o.
Ckalova 22/784
16000 Praha 6 - Bubeneč
Tel: +420 2 2439 0811
Fax: +420 2 3333 3576
Email: promat@promatpraha.cz
www.promatpraha.cz

DENMARK

Promat ApS
Tåstrup Stationscenter
Selsmosevej 2, 1. floor
2630 Tåstrup
Tel: +45 7020 0482
Fax: +45 7020 0483
Email: info@promat-scandinavia.com
www.promat-scandinavia.com

FRANCE

Promat S.A.S.
BP 66 Rue de L'Ammandier
78540 Vernouillet
Tel: +33 1 3979 6160
Fax: +33 1 3971 1660
Email: info@promat.fr
www.promat.fr

GERMANY

Promat GmbH
Scheifenkamp 16
40878 Ratingen
Tel: +49 2102 493 0
Fax: +49 2102 493 111
Email: mail@promat.de
www.promat.de

HONG KONG

**Promat International
(Asia Pacific) Ltd.**
Room 1010, C.C. Wu Building
302-308 Hennessy Road
Wanchai
Tel: +852 2836 3692
Fax: +852 2834 4313
Email: spraysinfo@promat-ap.com
www.promat.com.hk

INDIA

**Promat International
(Asia Pacific) Ltd.**
(India Representative Office)
610-611, Ansal Imperial Tower
C-Block, Community Centre
Naraina Vihar, Naraina
110028 New Delhi
Tel: +91 11 2577 8413
Fax: +91 11 2577 8414
Email: spraysinfo@promat-ap.com
www.promat-ap.com

ITALY

Promat S.p.A.
Corso Paganini 39/3
16125 Genova
Tel: +39 010 248 8411
Fax: +39 010 213 768
Email: info@promat.it
www.promat.it

MALAYSIA

Promat (Malaysia) Sdn. Bhd.
Unit 19-02-01
Level 2 PNB Damansara
No.19 Lorong Dungun
Damansara Heights
50490 Kuala Lumpur
Tel: +60 3 2095 8555
Fax: +60 3 2095 2111
Email: spraysinfo@promat-ap.com
www.promat-ap.com

NETHERLANDS

Promat B.V.
Vleugelboot 22
3991 CL Houten
P. O. Box 40385
3504 AD Utrecht
Tel: +31 30 241 0770
Fax: +31 30 241 0771
Email: info@promat.nl
www.promat.nl

POLAND

Promat TOP Sp. z o.o
ul. Przeclawska 8
03 879 Warszawa
Tel: +48 22 212 2280
Fax: +48 22 212 2290
Email: top@promatop.pl
www.promatop.pl

RUSSIA

Promat GmbH
Repräsentanz
ul. Kantemirovskaya 58
115477 Moscow
Tel: +7 495 325 4268
Fax: +7 495 231 7977
Email: gd@promat.ru
www.promat.ru

SINGAPORE

Promat Building System Pte. Ltd.
10 Science Park Road
#03-14 The Alpha
Singapore Science Park II
117684 Singapore
Tel: +65 6776 7635
Fax: +65 6776 7624
Email: spraysinfo@promat-ap.com
www.promat-ap.com

SPAIN

Promat Ibérica S.A.
C/ Velazquez, 41 - 2 Planta
28001 Madrid
Tel: +34 91 781 1550
Fax: +34 91 575 1597
Email: info@promat.es
www.promat.es

SWITZERLAND

Promat AG
Stationsstrasse 1
8545 Rickenbach-Sulz
Tel: +41 52 320 9400
Fax: +41 52 320 9402
Email: office@promat.ch
www.promat.ch

UNITED ARAB EMIRATES

Promat Middle East
Suite 1805, Floor 18
Festival City Tower
P O. Box 123945, Dubai
Tel: +971 4 232 9780
Fax: +971 4 232 9781
Email: promatmiddleeast
@promat.co.uk
www.promat-spray.com

UNITED KINGDOM

Promat UK Ltd.
The Sterling Centre
Eastern Road, Bracknell
RG12 2TD Berkshire, Great Britain
Tel: +44 1344 381 300
+44 1344 381 400 (technical)
Fax: +44 1344 381 301
Email: marketinguk@promat.co.uk
www.promat-spray.com

Promat Ireland

43 Fitzwilliam Square
Dublin 2, Ireland
Tel: +353 1 676 5778
www.promat.ie

VIETNAM

**Promat International
(Asia Pacific) Ltd.**
(Vietnam Representative Office)
Room 606 Giay Viet Plaza
180-182 Ly Chinh Thang Street
Ward 9, District 3
Hochiminh City
Tel: +84 904 055 055
Fax: +84 8 3931 5964
Email: spraysinfo@promat-ap.com
www.promat-ap.com