

Promat

Promat® Aqualite
Dry Spray Basecoat

www.promat-tunnel.com



Advantages

- Fast setting
- Excellent adhesion to substrate and PROMASPRAY®-F5
- Low modulus of elasticity
- Low shrinkage
- Excellent resistance to pure water, sulphated water, sea water and de-icing salts
- Excellent resistance to aggressive chemicals
- Excellent cohesion and mixing
- PROMASPRAY®-F5 may be applied as soon as setting is complete
- No curing necessary
- Can be used in wet conditions

Quality assurance

Promat products are manufactured to stringent quality control systems to assure that our customers receive materials made to the highest 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.

Introduction

Promat® Aqualite is a fast setting, fast curing, rapid strength gain dry spray concrete.

Promat® Aqualite is a blend of cement, potable water, approved cement binders and specially selected aggregates that is resistant to chloride penetration.

When used as an impervious basecoat with PROMASPRAY®-F5, the Portland cement based system will prevent any water ingress through the secondary fire resistant tunnel lining.

Promat® Aqualite is used for horizontal and vertical applications in tunnels where high early strength is required and wherever water ingress, pollution or chemical attack is likely.

Physical and technical properties

| | |
|-----------------------------|--|
| Colour and finish | Grey with a monolithic spray textured finish |
| Nominal thickness | 10mm proud of lath, un-reinforced |
| Theoretical coverage | 1m ² per 25kg bag at 10mm thick |
| Number of coats | One |
| Cure | By hydraulic set |
| Setting | Initial set: 4 minutes Full set: 10 minutes at 20°C |
| Density | 40MPa at 28 days |
| pH value | 12 |

Preparation

| | |
|------------------------------|--|
| Typical substrates | 316 stainless steel ribbed expanded metal lath or concrete. |
| Substrate preparation | The substrate shall be clean and free from dust. Concrete surfaces should have surface laitence removed by Ultra High Pressure (UHP) jet washing to expose aggregate for correct adhesion. |

Application

| | |
|----------------------|--|
| Mixing | For optimum results, conventional dry spray machines should be used. The optimum water/cement ratio is 38%. Higher ratios will result in reduced strength and longer setting times. Promat® Aqualite should be placed in the dry spray machine and transported to the nozzle by dry air where water is added. Set times may be adjusted in hot or cold weather by adding cold or hot water respectively. |
| General | Promat® Aqualite should be applied to a minimum thickness of 10mm proud of lath or concrete. |
| Setting times | Promat® Aqualite is designed to set within 10min at 20°C. Set time can be adjusted by using hot or cold water. |
| Cleaning | Promat® Aqualite should be removed from tools and equipment with water immediately after use. |

Packaging

25kg in polythene bag.

Storage

Store in dry conditions.

Shelf life

6 months when stored as directed.

Environmental

Do not discharge into drains, watercourses or soil.

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.

Head Office

Promat International N.V.
Bormstraat 24
2830 Tiselt
Belgium
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-oilandgas.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: info@promat-ap.com
www.promat-ap.com

Australia

Promat Australia Pty. Ltd.
1 Scotland Road
SA 5031 Mile End South
Tel: 1800 Promat (776 628)
Fax: +61 8 8352 1014
Email: mail@promat.com.au
www.promat-ap.com

Austria

Promat GmbH
St.-Peter-Straße 25
4021 Linz
Tel: +43 732 - 6912 - 0
Fax: +43 732 - 6912 - 3740
Email: office@promat.at
www.promat.at

Belgium

Promat Belgium
Bormstraat 24
2830 Tiselt
Tel: +32 15 719 351
Fax: +32 15 718 229
Email: info@promat.be
Email: techniek@promat.be
www.promat.be

China

Promat China Ltd.
Room 506, Block A, Qi Lin Plaza
13-35 Pan Fu Road
510180 Guangzhou
Tel: +86 20 8136 1167
Fax: +86 20 8136 1372
Email: info@promat.com.cn
www.promat.com.cn

Czech Republic

Promat s.r.o.
Kkalova 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 Nordic

Kometvej 36
6230 Rødskro
Tel: +45 7366 1999
Fax: +45 7466 1020
Email: info@promat.nu
www.promat.nu

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: apromath@promat.com.hk
www.promat.com.hk

India

Promat (Malaysia) Sdn. Bhd. (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: info-india@promat-asia.com
www.promat-ap.com

Italy

Promat Italy S.p.A.

Via Perlasca 14
27010 Vellezzo Bellini (PV)
Tel: +39 0382 4575 200
Fax: +39 0382 926 900
Email: info@promat.it
www.promat.it

Japan

Promat Japan Corporation

Pacific Marks Shinjuku 4-15-7
Nishi-Shinjuku, Shinjuku-Ku
160-0023 Tokyo

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: info@promat-ap.com
www.promat-ap.com

Netherlands

Promat B.V.

Vleugelboot 22
3991 CL Houten
PO Box 475
3990 GG Houten
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

Pr. Vernadskogo 84/2
119606, Russia
Tel: +7 (495) 246 01 01
Fax: +7(495) 246 01 92
Email: sales@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: info@promat.com.sg
www.promat-ap.com

South East Europe Headquarters, Slovenia

Promat d.o.o.

Trata 50
4220 Škofja Loka, Slovenia
Tel: +386 4 51 51 451
Fax: +386 4 51 51 450
Email: info@promat-see.com
www.promat-see.com

South Korea

Promat International (Asia Pacific) Ltd.

(Korea Branch Office)
Room 406, 811-2 - Yeoksam-dong
Gangnam-gu
135080 Seoul
Tel: +82 70 7794 8216
Email: apromath@promat.com.hk
www.promat-ap.com

Spain

Promat Ibérica S.A.

C/Velazquez, 47 - 6° izda
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 Fire Protection LLC

Plot no. 597-921,
Dubai Investment Park 2
PO Box 123945, Dubai
Tel: +971 4 8850 3070
Fax: +971 4 8853 588
www.promatfp.ae

United Kingdom

Promat UK Ltd.

The Sterling Centre, Eastern Road,
Bracknell
RG12 2TD Berkshire, Great Britain
Tel: +44 1344 381 300/400
Fax: +44 1344 381 301
Email: marketinguk@promat.co.uk
www.promat.co.uk

USA

Promat Inc.

1731 Fred Lawson Drive
TN 37801 Maryville
Tel: +1 865 681 0155
Fax: +1 865 681 0016
Email: sales@promat.us
www.promat.us