

1. DESCRIPTION

A water borne intumescent coating for the fire protection of structural steelwork.

2. PRODUCT FEATURES & RECOMMENDED USES

- Provides 30, 60 and 90 minutes fire resistance to structural steel.
- Tested in accordance with BS 476: Part 21: 1987 and AS1530.4 by Warrington Fire Research and The Building Research Establishment.
- Highly competitive loadings for most steel section sizes, giving reduced application costs.
- Easy application properties.
- Minimal VOC's – EPA Compliant and 'environmentally friendly'.
- Topseals are not required in C1 interior environments. When using topseals please check compatibility with Promat before application.
- Recommended for on-site application. Off-site applications must be topcoated before being taken outside and should be handled carefully to avoid edge damage (see APPLICATION NOTES).
- Recommended for interior environments classified as C1 or C2 under the definitions in ISO 12944-2: 1998. For external application apply 2 coats of recommended Topseal.

3. VOLUME SOLIDS

70% – 2%

4. FILM THICKNESS

For example: WET MICRONS = 414~2000;
DRY MICRONS = 290~1400.

5. THEORETICAL COVERAGE

1.0 litre per m² at 700 microns (µm) dry or 1000 microns wet (1000 microns = 1mm).

6. APPLICATION

Airless spray, brush, or roller.

7. DRYING TIMES*

At 375 microns DFT and RH 70%	10°C	20°C	25°C
Dust free	4 hours	1 hour	45 minutes
Hard dry	18 hours	4 hours	1 hour
Overcoating: Minimum Maximum	18 hours **	4 hours **	1 hour **

PRODUCTION NOTES

*Drying and overcoating times will vary with film thickness, temperature, relative humidity and ventilation. Do not apply below 5°C, temperature above 10°C preferred.

**Only overcoat with self or approved topseal, please consult Promat for advice. Maximum overcoating time is indefinite providing the surface is clean and the coating is sound. Coated surfaces must be kept in controlled, dry conditions until topsealed or degradation may occur.

APPLICATION NOTES

Method	Airless spray	Automatic spray	Conventional spray	Brush	Roller
Output fluid pressure	Minimum 3,000 psi	No	No	Yes	Yes
Tip size	21~25 thou				

Mix the paint thoroughly before use.

8. COLOURS

Off white.

9. FINISH

Matt.

10. POT LIFE AT 23°C

Not applicable.

11. PRODUCT WEIGHT

1.35 kg/litre.

12. STORAGE CONDITIONS

Store in dry, cool conditions and protect from frost.

13. MIXING RATIO

Not applicable.

14. THINNERS

Clean water.

15. SURFACE PREPARATION (STEEL)

Prior to application of the primer the steel must be cleaned to remove weld flux and general contamination in accordance with the primer manufacturers instructions. All sharp edges should be ground and weld spatter removed. Blast clean to AS 1627: Part 2: Swedish Standard SIS 05 59 00, or British Standard 7079 equivalent, as per primer manufacturers instructions. Apply compatible anti-corrosive primer in accordance with manufacturers written instructions to recommended DFT – Please consult Promat to confirm compatibility before application. Maximum 100 microns. Pay attention to edges of steel.

Consult relevant primer Product Data Sheets for further details. All primed surfaces should be clean, dry and free from all grease, oil and general contamination before coating.

16. HEALTH & SAFETY INFORMATION

Refer to Health & Safety Data Sheets. At all times observe precautionary notices on containers. For the Material Safety Data Sheet of PROMAPAIN[®] 60 Intumescent Coating, please download the PDF from www.promat-ap.com/pdf/pmp60_msds.pdf.

17. FLASH POINT

Not applicable.

18. EQUIPMENT CLEANER

Water.

Brush/roller application will typically give up to 500 microns dft for multi-coat application, but up to 1mm can be achieved with poor cosmetic finish. Highest standard of decorative finish is only likely to be achieved with careful airless spray application. Airless spray application will give up to 1600 microns dft in a single coat dependant on configuration. For an Architectural finish this thickness may have to be reduced to 1000microns dft depending up on the circumstances. Avoid exceeding maximum stated film thicknesses.

Off-site applications must be allowed sufficient hardening time before moving. Coated sections should be packed and handled so as to minimise damage to coating and prevent ponding by water, and should be stored and transported under cover. If possible, handling cleats should be attached to the steelwork to minimise lifting damage. Topseal must be applied before leaving the fabrication shop. On site, all damage should be repaired to original specification – consult Promat for advice. **Please consult Promat to confirm topseal compatibility before application.**

Only apply in conditions of good ventilation which should be maintained during drying. Do not apply when rain, mist, sleet or snow are imminent. Do not apply or allow to dry below 5°C, temperatures above 10°C are preferred. During application and drying time of the paint coating, the surface should be dry and the Relative Humidity should not exceed 90%, and as with all water borne coatings the RH should be maintained as low as possible. The steel temperature should remain at least 3°C above the dew point.

The information in this data sheet is correct at the time of printing. Consult Promat before applying as to the suitability for use otherwise we cannot be held responsible for conditions beyond our control.

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