



**Promat**



# Cafco SPRAYFILM<sup>®</sup> WB3

*Water Based Intumescent Coating*



032-073

## Cafco SPRAYFILM® WB3

### Water Based Intumescent Coating

#### INTRODUCTION

Cafco SPRAYFILM® WB3 is a water based intumescent coating consisting of polyvinyl acetate resins and fillers for the fire protection of structural steel. It can be sealed and protected with a decorative top coat.

Cafco SPRAYFILM® WB3 is applied directly to the contour of primed I and H section columns, angles, channels and beams and hollow sections, to provide fire protection for up to 120 minutes. In a fire, a chemical reaction takes place causing the Cafco SPRAYFILM® WB3 to expand and form an insulating layer which slows the temperature of the steel rising to a critical level.



| Properties and performance |   |
|----------------------------|---|
| Colour and finish          | White with a flat matt finish. Preferably spray applied with airless paint equipment for speed and quality of finish. Brush and roller application is also possible.  |
| Maximum thickness per coat | Wet film thickness (WFT) at 1.6mm using spray and 0.76mm using brush. For airless spraying, several thin coats as opposed to one heavy coat will give greater control over finish and thickness.  |
| Practical coverage         | Dependent on surface texture, substrate, application method and technique.  |
| Theoretical coverage       | Approximately 18.79m <sup>2</sup> per container (1mm per litre) at 1mm WFT = 0.7mm DFT (Dry film thickness) = 1 litre per m <sup>2</sup><br>1mm = 1000µm (microns)  |
| Number of coats            | One or more as required   |
| Cure                       | By air drying   |
| Initial set                | Approximately 6 hours at 20°C and 50% RH for 0.4mm WFT  |
| Solids by weight           | 70% ± 2%  |
| Density                    | 1.33kg/litre  |
| Surface burning            | Flame spread 5, smoke development 35 when tested to ASTM E84.   |
| Durometer hardness         | 80 shore D when tested to ASTM D2240  |
| Impact resistance          | 18kg/m when tested to ASTM D2794  |
| Abrasion resistance        | 0.6505g/1000 cycles when tested to ASTM D4060   |
| pH value                   | 8.0 ± 0.2 at 25°C   |
| Fire resistance            | Structures protected with Cafco SPRAYFILM® WB3 have undergone fire resistance tests at approved independent laboratories to recognised standards throughout the world, including: <ul style="list-style-type: none"> <li>• UK (BS476: Part 21: 1987)</li> <li>• Canada and USA (ASTM E119 and ASTM E84)</li> <li>• Australia (AS1530: Part 4)</li> </ul> Assessed in accordance with ASFP "Fire protection for structural steel in buildings" procedures. |

#### QUALITY ASSURANCE

Promat manufactures to a quality system in accordance with ISO 9001: 2008 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.

#### ADVANTAGES

- Provides fire resistance for up to 120 minutes in accordance with BS476: Part 21 and AS1530: Part 4 and up to 180 minutes in accordance with ASTM E119.
- Durable and decorative finish.
- Steelwork may be left exposed to view.
- Chemical and abuse resistant.
- Can be top coated to match surroundings.
- Easy application and clean up with water.
- Fast drying time.



# Cafco SPRAYFILM® WB3

## Water Based Intumescent Coating

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

| Preparation                  |  |
|------------------------------|--|
| <b>Typical substrates</b>    | Primed steel   |
| <b>Substrate preparation</b> | <p>The substrate shall be clean, dry and free from dust, oil and any other condition preventing good adhesion.</p> <p>Before applying Cafco SPRAYFILM® WB3 to structural steel, the steel must be blast cleaned to SA 2.5 (ISO 8501-1: 1998), primed with a compatible primer approved by Promat Sprays Division and applied in full compliance with the manufacturer's recommendations.</p> <p>Primers compatible with Cafco SPRAYFILM® WB3 are generally of the following types:</p> <ul style="list-style-type: none"> <li>● Alkyd zinc phosphate</li> <li>● Epoxy polyamide zinc phosphate</li> <li>● Zinc silicate (inorganic zinc)*</li> <li>● Epoxy zinc rich (organic zinc)*</li> </ul> <p>* Tie coat required</p> <p>If left exposed for long periods zinc rich epoxies may form a layer of zinc salts on the surface. These salts must be completely removed before applying Cafco SPRAYFILM® WB3.</p> |

| Application                      |  |
|----------------------------------|--|
| <b>Methods</b>                   | <p>Cafco SPRAYFILM® WB3 is supplied ready for use and should not be diluted. The primer thickness should be measured and recorded prior to the application of Cafco SPRAYFILM® WB3, in order to be able to accurately check the thickness of Cafco SPRAYFILM® WB3 during and after application.</p> <p>Stir Cafco SPRAYFILM® WB3 thoroughly with a drill type mixer prior to application by either airless spray, brush or roller.</p> <p>Protect from rain and high humidity during application and drying.</p> |
| <b>Thickness checking during</b> | <p>To ensure the correct thickness is being applied, frequent measurements should be taken using a wet film thickness gauge. To determine approximate dry film thickness (DFT) based on wet film thickness (WFT), multiply WFT by 0.72.</p> <p>For example: 1.3mm WFT x 0.72 = 0.936mm DFT</p>   |
| <b>Limitations</b>               | <p>Take a dry film thickness reading as soon as the coating is fully cured. An Elecometer 211 permanent magnetic (banana gauge) or Elecometer 456 electromagnetic (electronic gauge) type may be used. Ensure primer thickness is deducted from final thickness reading.</p> <p>If Cafco SPRAYFILM® WB3 is left exposed, it must be protected from rain and high humidity or sealed with a topcoat appropriate for the environmental conditions. Please contact Promat for appropriate products.</p>             |

## FIRE PROTECTION THICKNESS

The thickness of the fire protection for a given period of fire resistance in a cellulosic type fire, relates to the Hp/A ratio of the steel section. Hp/A is the ratio of the heated perimeter of a steel section exposed to fire to the cross-sectional area of the same steel.

All column and beam sections have their own specific Hp/A ratio. Please consult Promat to establish the Hp/A ratio for a particular beam or column section and to ascertain the required thickness of Cafco SPRAYFILM® WB3.

For advice on thickness calculations for I and H section beams and columns, castellated sections, composite floors, upgrading of concrete slabs and more complex situations, please contact Promat.

See the tables on pages 4 to 10 on thickness for the fire resistance required.

## 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.



## Cafco SPRAYFILM® WB3

Water Based Intumescent Coating

### FIRE PROTECTION THICKNESS

TABLE 1 Cafco SPRAYFILM® WB3 thicknesses for H section columns (4-sided exposure). Critical temperature 550°C. (AS1530: Part 4)

| Hp/A     | Thickness for the fire resistance required |        |        |         |
|----------|--|--------|--------|---------|
|          | 30 min                                     | 60 min | 90 min | 120 min |
| Up to 45 | 0.23mm                                     | 0.60mm | 1.50mm | 1.50mm  |
| 46-50    | 0.23mm                                     | 0.60mm | 1.50mm | 1.50mm  |
| 51-55    | 0.23mm                                     | 0.60mm | 1.50mm | 1.50mm  |
| 56-60    | 0.23mm                                     | 0.60mm | 1.50mm | 1.50mm  |
| 61-65    | 0.23mm                                     | 0.60mm | 1.50mm | 1.50mm  |
| 66-70    | 0.23mm                                     | 0.60mm | 1.50mm | 1.67mm  |
| 71-75    | 0.23mm                                     | 0.60mm | 1.50mm | 1.83mm  |
| 76-80    | 0.23mm                                     | 0.60mm | 1.50mm | 2.00mm  |
| 81-85    | 0.23mm                                     | 0.60mm | 1.50mm | 2.08mm  |
| 86-90    | 0.23mm                                     | 0.60mm | 1.50mm | 2.15mm  |
| 91-95    | 0.23mm                                     | 0.60mm | 1.50mm | 2.23mm  |
| 96-100   | 0.23mm                                     | 0.60mm | 1.50mm | 2.31mm  |
| 101-105  | 0.23mm                                     | 0.60mm | 1.50mm | 2.38mm  |
| 106-110  | 0.23mm                                     | 0.60mm | 1.50mm | 2.46mm  |
| 111-115  | 0.23mm                                     | 0.60mm | 1.50mm | 2.54mm  |
| 116-120  | 0.23mm                                     | 0.60mm | 1.50mm | 2.62mm  |
| 121-125  | 0.23mm                                     | 0.66mm | 1.57mm | 2.69mm  |
| 126-130  | 0.23mm                                     | 0.71mm | 1.62mm | 2.77mm  |
| 131-135  | 0.23mm                                     | 0.75mm | 1.67mm | 2.85mm  |
| 136-140  | 0.23mm                                     | 0.80mm | 1.72mm | 2.92mm  |
| 141-145  | 0.23mm                                     | 0.85mm | 1.78mm | 3.00mm  |
| 146-150  | 0.23mm                                     | 0.87mm | 1.83mm | 3.11mm  |
| 151-155  | 0.23mm                                     | 0.88mm | 1.88mm | 3.23mm  |
| 156-160  | 0.24mm                                     | 0.89mm | 1.93mm | 3.34mm  |
| 161-165  | 0.24mm                                     | 0.90mm | 1.98mm | 3.45mm  |
| 166-170  | 0.24mm                                     | 0.90mm | 2.03mm | 3.57mm  |
| 171-175  | 0.24mm                                     | 0.91mm | 2.08mm | 3.68mm  |
| 176-180  | 0.24mm                                     | 0.92mm | 2.14mm | 3.80mm  |

| Hp/A    | Thickness for the fire resistance required |        |        |         |
|---------|--|--------|--------|---------|
|         | 30 min                                     | 60 min | 90 min | 120 min |
| 181-185 | 0.25mm                                     | 0.92mm | 2.19mm | 3.91mm  |
| 186-190 | 0.25mm                                     | 0.93mm | 2.24mm | 4.02mm  |
| 191-195 | 0.25mm                                     | 0.94mm | 2.29mm | 4.43mm  |
| 196-200 | 0.25mm                                     | 0.95mm | 2.34mm | 4.79mm  |
| 201-205 | 0.25mm                                     | 0.95mm | 2.40mm | 5.14mm  |
| 206-210 | 0.26mm                                     | 0.96mm | 2.45mm | 5.50mm  |
| 211-215 | 0.26mm                                     | 0.97mm | 2.50mm | 5.86mm  |
| 216-220 | 0.27mm                                     | 0.97mm | 2.55mm | 6.21mm  |
| 221-225 | 0.27mm                                     | 0.98mm | 2.60mm | –       |
| 226-230 | 0.28mm                                     | 0.99mm | 2.66mm | –       |
| 231-235 | 0.28mm                                     | 1.00mm | 2.71mm | –       |
| 236-240 | 0.29mm                                     | 1.00mm | 2.76mm | –       |
| 241-245 | 0.29mm                                     | 1.04mm | 2.81mm | –       |
| 246-250 | 0.30mm                                     | 1.06mm | 2.86mm | –       |
| 251-255 | 0.30mm                                     | 1.09mm | 2.92mm | –       |
| 256-260 | 0.31mm                                     | 1.12mm | 2.97mm | –       |
| 261-265 | 0.31mm                                     | 1.14mm | 3.02mm | –       |
| 266-270 | 0.32mm                                     | 1.17mm | 3.14mm | –       |
| 271-275 | 0.32mm                                     | 1.19mm | 3.24mm | –       |
| 276-280 | 0.33mm                                     | 1.22mm | 3.34mm | –       |
| 281-285 | 0.33mm                                     | 1.25mm | 3.44mm | –       |
| 286-290 | 0.34mm                                     | 1.27mm | 3.54mm | –       |
| 291-295 | 0.34mm                                     | 1.30mm | 3.64mm | –       |
| 296-300 | 0.35mm                                     | 1.33mm | 3.74mm | –       |
| 301-305 | 0.35mm                                     | 1.35mm | 3.84mm | –       |
| 306-310 | 0.36mm                                     | 1.38mm | 3.94mm | –       |
| 311-315 | 0.36mm                                     | 1.41mm | 4.04mm | –       |
| 316-320 | 0.37mm                                     | 1.43mm | 4.32mm | –       |



# Cafco SPRAYFILM® WB3

## Water Based Intumescent Coating

TABLE 2 Cafco SPRAYFILM® WB3 thicknesses for I section beams (3-sided exposure). Critical temperature 620°C, continuous concrete topping. (AS1530: Part 4)

| Hp/A     | Thickness for the fire resistance required |        |        |         | Hp/A    | Thickness for the fire resistance required |        |        |         |
|----------|--|--------|--------|---------|---------|--|--------|--------|---------|
|          | 30 min                                     | 60 min | 90 min | 120 min |         | 30 min                                     | 60 min | 90 min | 120 min |
| Up to 45 | 0.23mm                                     | 0.25mm | 1.20mm | 1.20mm  | 181-185 | 0.23mm                                     | 0.67mm | 1.83mm | 2.95mm  |
| 46-50    | 0.23mm                                     | 0.25mm | 1.20mm | 1.20mm  | 186-190 | 0.23mm                                     | 0.70mm | 1.95mm | 3.01mm  |
| 51-55    | 0.23mm                                     | 0.25mm | 1.20mm | 1.20mm  | 191-195 | 0.23mm                                     | 0.73mm | 2.02mm | 3.18mm  |
| 56-60    | 0.23mm                                     | 0.25mm | 1.20mm | 1.20mm  | 196-200 | 0.23mm                                     | 0.76mm | 2.07mm | 3.33mm  |
| 61-65    | 0.23mm                                     | 0.25mm | 1.20mm | 1.20mm  | 201-205 | 0.23mm                                     | 0.80mm | 2.11mm | 3.48mm  |
| 66-70    | 0.23mm                                     | 0.25mm | 1.20mm | 1.23mm  | 206-210 | 0.23mm                                     | 0.83mm | 2.15mm | 3.64mm  |
| 71-75    | 0.23mm                                     | 0.25mm | 1.20mm | 1.28mm  | 211-215 | 0.24mm                                     | 0.86mm | 2.19mm | 3.79mm  |
| 76-80    | 0.23mm                                     | 0.27mm | 1.20mm | 1.33mm  | 216-220 | 0.24mm                                     | 0.88mm | 2.23mm | 3.94mm  |
| 81-85    | 0.23mm                                     | 0.28mm | 1.20mm | 1.39mm  | 221-225 | 0.24mm                                     | 0.89mm | 2.27mm | 4.21mm  |
| 86-90    | 0.23mm                                     | 0.30mm | 1.20mm | 1.44mm  | 226-230 | 0.24mm                                     | 0.91mm | 2.31mm | 4.57mm  |
| 91-95    | 0.23mm                                     | 0.32mm | 1.20mm | 1.49mm  | 231-235 | 0.24mm                                     | 0.93mm | 2.36mm | 4.93mm  |
| 96-100   | 0.23mm                                     | 0.34mm | 1.20mm | 1.63mm  | 236-240 | 0.25mm                                     | 0.94mm | 2.40mm | 5.29mm  |
| 101-105  | 0.23mm                                     | 0.36mm | 1.20mm | 1.78mm  | 241-245 | 0.25mm                                     | 0.96mm | 2.44mm | 5.64mm  |
| 106-110  | 0.23mm                                     | 0.38mm | 1.20mm | 1.94mm  | 246-250 | 0.25mm                                     | 0.97mm | 2.48mm | 6.00mm  |
| 111-115  | 0.23mm                                     | 0.40mm | 1.20mm | 2.04mm  | 251-255 | 0.25mm                                     | 0.99mm | 2.52mm | –       |
| 116-120  | 0.23mm                                     | 0.42mm | 1.20mm | 2.10mm  | 256-260 | 0.25mm                                     | 1.00mm | 2.56mm | –       |
| 121-125  | 0.23mm                                     | 0.44mm | 1.20mm | 2.17mm  | 261-265 | 0.26mm                                     | 1.02mm | 2.60mm | –       |
| 126-130  | 0.23mm                                     | 0.46mm | 1.20mm | 2.23mm  | 266-270 | 0.26mm                                     | 1.04mm | 2.64mm | –       |
| 131-135  | 0.23mm                                     | 0.48mm | 1.20mm | 2.30mm  | 271-275 | 0.27mm                                     | 1.05mm | 2.69mm | –       |
| 136-140  | 0.23mm                                     | 0.50mm | 1.20mm | 2.36mm  | 276-280 | 0.28mm                                     | 1.07mm | 2.73mm | –       |
| 141-145  | 0.23mm                                     | 0.52mm | 1.20mm | 2.43mm  | 281-285 | 0.28mm                                     | 1.08mm | 2.77mm | –       |
| 146-150  | 0.23mm                                     | 0.54mm | 1.26mm | 2.49mm  | 286-290 | 0.29mm                                     | 1.10mm | 2.81mm | –       |
| 151-155  | 0.23mm                                     | 0.56mm | 1.31mm | 2.56mm  | 291-295 | 0.29mm                                     | 1.11mm | 2.85mm | –       |
| 156-160  | 0.23mm                                     | 0.57mm | 1.37mm | 2.62mm  | 296-300 | 0.30mm                                     | 1.13mm | 2.89mm | –       |
| 161-165  | 0.23mm                                     | 0.57mm | 1.42mm | 2.69mm  | 301-305 | 0.30mm                                     | 1.14mm | 2.93mm | –       |
| 166-170  | 0.23mm                                     | 0.57mm | 1.48mm | 2.75mm  | 306-310 | 0.31mm                                     | 1.16mm | 2.98mm | –       |
| 171-175  | 0.23mm                                     | 0.61mm | 1.58mm | 2.82mm  | 311-315 | 0.31mm                                     | 1.18mm | 3.02mm | –       |
| 176-180  | 0.23mm                                     | 0.64mm | 1.70mm | 2.88mm  | 316-320 | 0.32mm                                     | 1.19mm | 3.22mm | –       |



## Cafco SPRAYFILM® WB3

### Water Based Intumescent Coating

#### FIRE PROTECTION THICKNESS

TABLE 3 Cafco SPRAYFILM® WB3 thicknesses for hollow section beams and columns (4-sided exposure). Critical temperature 550°C. (AS1530: Part 4)

| Hp/A     | Thickness for the fire resistance required |        |        |         | Hp/A    | Thickness for the fire resistance required |        |        |         |
|----------|--|--------|--------|---------|---------|--|--------|--------|---------|
|          | 30 min                                     | 60 min | 90 min | 120 min |         | 30 min                                     | 60 min | 90 min | 120 min |
| Up to 45 | 0.23mm                                     | 0.40mm | 1.80mm | 3.50mm  | 181-185 | 0.41mm                                     | 1.27mm | 3.43mm | –       |
| 46-50    | 0.23mm                                     | 0.40mm | 1.80mm | 3.50mm  | 186-190 | 0.41mm                                     | 1.30mm | 3.48mm | –       |
| 51-55    | 0.23mm                                     | 0.42mm | 1.80mm | 3.50mm  | 191-195 | 0.42mm                                     | 1.32mm | 3.57mm | –       |
| 56-60    | 0.23mm                                     | 0.44mm | 1.80mm | 3.50mm  | 196-200 | 0.42mm                                     | 1.35mm | 3.70mm | –       |
| 61-65    | 0.23mm                                     | 0.47mm | 1.80mm | 3.50mm  | 201-205 | 0.43mm                                     | 1.37mm | 3.82mm | –       |
| 66-70    | 0.23mm                                     | 0.49mm | 1.80mm | 3.50mm  | 206-210 | 0.43mm                                     | 1.40mm | 3.94mm | –       |
| 71-75    | 0.24mm                                     | 0.51mm | 1.92mm | 3.50mm  | 211-215 | 0.44mm                                     | 1.42mm | 4.06mm | –       |
| 76-80    | 0.24mm                                     | 0.53mm | 2.07mm | 3.50mm  | 216-220 | 0.44mm                                     | 1.44mm | 4.19mm | –       |
| 81-85    | 0.25mm                                     | 0.56mm | 2.20mm | 3.50mm  | 221-225 | 0.45mm                                     | 1.47mm | 4.31mm | –       |
| 86-90    | 0.25mm                                     | 0.58mm | 2.34mm | 3.50mm  | 226-230 | 0.45mm                                     | 1.49mm | 4.43mm | –       |
| 91-95    | 0.25mm                                     | 0.60mm | 2.47mm | 3.50mm  | 231-235 | 0.46mm                                     | 1.52mm | 4.55mm | –       |
| 96-100   | 0.26mm                                     | 0.66mm | 2.54mm | 3.50mm  | 236-240 | 0.46mm                                     | 1.54mm | 4.68mm | –       |
| 101-105  | 0.27mm                                     | 0.72mm | 2.59mm | 3.67mm  | 241-245 | 0.47mm                                     | 1.56mm | 4.80mm | –       |
| 106-110  | 0.28mm                                     | 0.78mm | 2.65mm | 3.94mm  | 246-250 | 0.47mm                                     | 1.59mm | 4.92mm | –       |
| 111-115  | 0.28mm                                     | 0.84mm | 2.70mm | 4.22mm  | 251-255 | 0.48mm                                     | 1.61mm | 5.04mm | –       |
| 116-120  | 0.29mm                                     | 0.90mm | 2.75mm | 4.50mm  | 256-260 | 0.48mm                                     | 1.64mm | 5.17mm | –       |
| 121-125  | 0.30mm                                     | 0.96mm | 2.80mm | 4.78mm  | 261-265 | 0.49mm                                     | 1.66mm | 5.29mm | –       |
| 126-130  | 0.31mm                                     | 1.02mm | 2.85mm | 5.06mm  | 266-270 | 0.49mm                                     | 1.68mm | 5.41mm | –       |
| 131-135  | 0.32mm                                     | 1.03mm | 2.91mm | 5.33mm  | 271-275 | 0.50mm                                     | 1.71mm | 5.53mm | –       |
| 136-140  | 0.33mm                                     | 1.06mm | 2.96mm | 5.61mm  | 276-280 | 0.50mm                                     | 1.73mm | 5.56mm | –       |
| 141-145  | 0.34mm                                     | 1.08mm | 3.01mm | 5.89mm  | 281-285 | 0.50mm                                     | 1.76mm | 5.78mm | –       |
| 146-150  | 0.35mm                                     | 1.11mm | 3.06mm | 6.17mm  | 286-290 | 0.51mm                                     | 1.78mm | 5.90mm | –       |
| 151-155  | 0.36mm                                     | 1.13mm | 3.11mm | 6.44mm  | 291-295 | 0.51mm                                     | 1.80mm | 6.02mm | –       |
| 156-160  | 0.37mm                                     | 1.15mm | 3.17mm | –       | 296-300 | 0.52mm                                     | 1.86mm | 6.15mm | –       |
| 161-165  | 0.38mm                                     | 1.18mm | 3.22mm | –       | 301-305 | 0.52mm                                     | 1.90mm | 6.27mm | –       |
| 166-170  | 0.39mm                                     | 1.20mm | 3.27mm | –       | 306-310 | 0.53mm                                     | 1.95mm | 6.39mm | –       |
| 171-175  | 0.40mm                                     | 1.23mm | 3.32mm | –       | 311-315 | 0.53mm                                     | 1.99mm | 6.51mm | –       |
| 176-180  | 0.40mm                                     | 1.25mm | 3.38mm | –       | 316-320 | 0.54mm                                     | 2.04mm | –      | –       |



# Cafco SPRAYFILM® WB3

## Water Based Intumescent Coating

TABLE 4 Cafco SPRAYFILM® WB3 thicknesses for I section beams (3-sided exposure). Critical temperature 620°C, continuous concrete topping. (BS476: Part 21: 1987)

| Hp/A     | Thickness for the fire resistance required |        |        |         | Hp/A    | Thickness for the fire resistance required |        |        |         |
|----------|--|--------|--------|---------|---------|--|--------|--------|---------|
|          | 30 min                                     | 60 min | 90 min | 120 min |         | 30 min                                     | 60 min | 90 min | 120 min |
| Up to 45 | 0.23mm                                     | 0.25mm | 1.20mm | 1.20mm  | 181-185 | 0.23mm                                     | 0.67mm | 1.83mm | 2.95mm  |
| 46-50    | 0.23mm                                     | 0.25mm | 1.20mm | 1.20mm  | 186-190 | 0.23mm                                     | 0.70mm | 1.95mm | 3.01mm  |
| 51-55    | 0.23mm                                     | 0.25mm | 1.20mm | 1.20mm  | 191-195 | 0.23mm                                     | 0.73mm | 2.02mm | 3.40mm  |
| 56-60    | 0.23mm                                     | 0.25mm | 1.20mm | 1.20mm  | 196-200 | 0.23mm                                     | 0.76mm | 2.07mm | 3.73mm  |
| 61-65    | 0.23mm                                     | 0.25mm | 1.20mm | 1.20mm  | 201-205 | 0.23mm                                     | 0.80mm | 2.11mm | 4.07mm  |
| 66-70    | 0.23mm                                     | 0.25mm | 1.20mm | 1.20mm  | 206-210 | 0.23mm                                     | 0.83mm | 2.15mm | 4.26mm  |
| 71-75    | 0.23mm                                     | 0.25mm | 1.20mm | 1.20mm  | 211-215 | 0.24mm                                     | 0.86mm | 2.19mm | 4.48mm  |
| 76-80    | 0.23mm                                     | 0.27mm | 1.20mm | 1.23mm  | 216-220 | 0.24mm                                     | 0.88mm | 2.23mm | 4.70mm  |
| 81-85    | 0.23mm                                     | 0.28mm | 1.20mm | 1.32mm  | 221-225 | 0.24mm                                     | 0.89mm | 2.27mm | 4.91mm  |
| 86-90    | 0.23mm                                     | 0.30mm | 1.20mm | 1.40mm  | 226-230 | 0.24mm                                     | 0.91mm | 2.31mm | 5.13mm  |
| 91-95    | 0.23mm                                     | 0.32mm | 1.20mm | 1.48mm  | 231-235 | 0.24mm                                     | 0.93mm | 2.36mm | 5.35mm  |
| 96-100   | 0.23mm                                     | 0.34mm | 1.20mm | 1.70mm  | 236-240 | 0.25mm                                     | 0.94mm | 2.40mm | 5.57mm  |
| 101-105  | 0.23mm                                     | 0.36mm | 1.20mm | 1.95mm  | 241-245 | 0.25mm                                     | 0.96mm | 2.44mm | 5.78mm  |
| 106-110  | 0.23mm                                     | 0.38mm | 1.20mm | 2.05mm  | 246-250 | 0.25mm                                     | 0.97mm | 2.48mm | 6.00mm  |
| 111-115  | 0.23mm                                     | 0.40mm | 1.20mm | 2.11mm  | 251-255 | 0.25mm                                     | 0.99mm | 2.52mm | 6.22mm  |
| 116-120  | 0.23mm                                     | 0.42mm | 1.20mm | 2.17mm  | 256-260 | 0.25mm                                     | 1.00mm | 2.56mm | 6.43mm  |
| 121-125  | 0.23mm                                     | 0.44mm | 1.20mm | 2.23mm  | 261-265 | 0.26mm                                     | 1.02mm | 2.60mm | –       |
| 126-130  | 0.23mm                                     | 0.46mm | 1.20mm | 2.29mm  | 266-270 | 0.26mm                                     | 1.04mm | 2.64mm | –       |
| 131-135  | 0.23mm                                     | 0.48mm | 1.20mm | 2.35mm  | 271-275 | 0.27mm                                     | 1.05mm | 2.69mm | –       |
| 136-140  | 0.23mm                                     | 0.50mm | 1.20mm | 2.41mm  | 276-280 | 0.28mm                                     | 1.07mm | 2.73mm | –       |
| 141-145  | 0.23mm                                     | 0.52mm | 1.20mm | 2.47mm  | 281-285 | 0.28mm                                     | 1.08mm | 2.77mm | –       |
| 146-150  | 0.23mm                                     | 0.54mm | 1.26mm | 2.53mm  | 286-290 | 0.29mm                                     | 1.10mm | 2.81mm | –       |
| 151-155  | 0.23mm                                     | 0.56mm | 1.31mm | 2.59mm  | 291-295 | 0.29mm                                     | 1.11mm | 2.85mm | –       |
| 156-160  | 0.23mm                                     | 0.57mm | 1.37mm | 2.65mm  | 296-300 | 0.30mm                                     | 1.13mm | 2.89mm | –       |
| 161-165  | 0.23mm                                     | 0.57mm | 1.42mm | 2.71mm  | 301-305 | 0.30mm                                     | 1.14mm | 2.93mm | –       |
| 166-170  | 0.23mm                                     | 0.57mm | 1.48mm | 2.77mm  | 306-310 | 0.31mm                                     | 1.16mm | 2.98mm | –       |
| 171-175  | 0.23mm                                     | 0.61mm | 1.58mm | 2.83mm  | 311-315 | 0.31mm                                     | 1.18mm | 3.02mm | –       |
| 176-180  | 0.23mm                                     | 0.64mm | 1.70mm | 2.89mm  | 316-320 | 0.32mm                                     | 1.19mm | 3.22mm | –       |

NOTE: The above tables are based on report no. WF 176738A.

## Cafco SPRAYFILM® WB3

### Water Based Intumescent Coating

#### FIRE PROTECTION THICKNESS

TABLE 5 Cafco SPRAYFILM® WB3 thicknesses for I section beams (4-sided exposure). Critical temperature 550°C. (BS476: Part 21: 1987)

| Hp/A     | Thickness for the fire resistance required |        |        |         | Hp/A    | Thickness for the fire resistance required |        |        |         |
|----------|--|--------|--------|---------|---------|--|--------|--------|---------|
|          | 30 min                                     | 60 min | 90 min | 120 min |         | 30 min                                     | 60 min | 90 min | 120 min |
| Up to 45 | 0.23mm                                     | 0.57mm | 1.20mm | 1.20mm  | 181-185 | 0.24mm                                     | 0.98mm | 2.38mm | 4.58mm  |
| 46-50    | 0.23mm                                     | 0.57mm | 1.20mm | 1.20mm  | 186-190 | 0.24mm                                     | 1.00mm | 2.43mm | 4.80mm  |
| 51-55    | 0.23mm                                     | 0.57mm | 1.20mm | 1.22mm  | 191-195 | 0.24mm                                     | 1.01mm | 2.48mm | 5.02mm  |
| 56-60    | 0.23mm                                     | 0.57mm | 1.20mm | 1.33mm  | 196-200 | 0.25mm                                     | 1.03mm | 2.54mm | 5.24mm  |
| 61-65    | 0.23mm                                     | 0.57mm | 1.20mm | 1.44mm  | 201-205 | 0.25mm                                     | 1.05mm | 2.59mm | 5.47mm  |
| 66-70    | 0.23mm                                     | 0.57mm | 1.20mm | 1.53mm  | 206-210 | 0.25mm                                     | 1.07mm | 2.64mm | 5.69mm  |
| 71-75    | 0.23mm                                     | 0.57mm | 1.20mm | 1.82mm  | 211-215 | 0.25mm                                     | 1.08mm | 2.69mm | 5.91mm  |
| 76-80    | 0.23mm                                     | 0.57mm | 1.20mm | 2.05mm  | 216-220 | 0.26mm                                     | 1.10mm | 2.75mm | 6.13mm  |
| 81-85    | 0.23mm                                     | 0.57mm | 1.20mm | 2.09mm  | 221-225 | 0.27mm                                     | 1.12mm | 2.80mm | 6.36mm  |
| 86-90    | 0.23mm                                     | 0.57mm | 1.20mm | 2.17mm  | 226-230 | 0.27mm                                     | 1.13mm | 2.85mm | 6.58mm  |
| 91-95    | 0.23mm                                     | 0.57mm | 1.20mm | 2.25mm  | 231-235 | 0.28mm                                     | 1.15mm | 2.91mm | –       |
| 96-100   | 0.23mm                                     | 0.57mm | 1.20mm | 2.33mm  | 236-240 | 0.29mm                                     | 1.17mm | 2.96mm | –       |
| 101-105  | 0.23mm                                     | 0.57mm | 1.21mm | 2.41mm  | 241-245 | 0.30mm                                     | 1.18mm | 3.01mm | –       |
| 106-110  | 0.23mm                                     | 0.57mm | 1.27mm | 2.48mm  | 246-250 | 0.30mm                                     | 1.20mm | 3.18mm | –       |
| 111-115  | 0.23mm                                     | 0.57mm | 1.33mm | 2.56mm  | 251-255 | 0.31mm                                     | 1.22mm | 3.32mm | –       |
| 116-120  | 0.23mm                                     | 0.57mm | 1.38mm | 2.64mm  | 256-260 | 0.32mm                                     | 1.25mm | 3.47mm | –       |
| 121-125  | 0.23mm                                     | 0.57mm | 1.44mm | 2.72mm  | 261-265 | 0.32mm                                     | 1.27mm | 3.62mm | –       |
| 126-130  | 0.23mm                                     | 0.63mm | 1.50mm | 2.80mm  | 266-270 | 0.33mm                                     | 1.30mm | 3.76mm | –       |
| 131-135  | 0.23mm                                     | 0.68mm | 1.63mm | 2.88mm  | 271-275 | 0.34mm                                     | 1.32mm | 3.91mm | –       |
| 136-140  | 0.23mm                                     | 0.74mm | 1.76mm | 2.95mm  | 276-280 | 0.35mm                                     | 1.34mm | 4.06mm | –       |
| 141-145  | 0.23mm                                     | 0.79mm | 1.89mm | 3.03mm  | 281-285 | 0.35mm                                     | 1.37mm | 4.18mm | –       |
| 146-150  | 0.23mm                                     | 0.85mm | 2.03mm | 3.24mm  | 286-290 | 0.36mm                                     | 1.39mm | 4.30mm | –       |
| 151-155  | 0.23mm                                     | 0.88mm | 2.06mm | 3.41mm  | 291-295 | 0.37mm                                     | 1.41mm | 4.43mm | –       |
| 156-160  | 0.23mm                                     | 0.90mm | 2.12mm | 3.59mm  | 296-300 | 0.38mm                                     | 1.44mm | 4.56mm | –       |
| 161-165  | 0.23mm                                     | 0.91mm | 2.17mm | 3.76mm  | 301-305 | 0.38mm                                     | 1.46mm | 4.68mm | –       |
| 166-170  | 0.23mm                                     | 0.93mm | 2.22mm | 3.93mm  | 306-310 | 0.39mm                                     | 1.49mm | 4.81mm | –       |
| 171-175  | 0.24mm                                     | 0.95mm | 2.27mm | 4.13mm  | 311-315 | 0.40mm                                     | 1.51mm | 4.94mm | –       |
| 176-180  | 0.24mm                                     | 0.96mm | 2.33mm | 4.36mm  | 316-320 | 0.40mm                                     | 1.54mm | 5.06mm | –       |

NOTE: The above tables are based on report no. WF 176738A.





# Cafco SPRAYFILM® WB3

## Water Based Intumescent Coating

TABLE 6 Cafco SPRAYFILM® WB3 thicknesses for H section columns (4-sided exposure). Critical temperature 550°C.  
(BS476: Part 21: 1987)

| Hp/A     | Thickness for the fire resistance required |        |        |         |
|----------|--|--------|--------|---------|
|          | 30 min                                     | 60 min | 90 min | 120 min |
| Up to 45 | 0.23mm                                     | 0.60mm | 1.00mm | 1.50mm  |
| 46-50    | 0.23mm                                     | 0.60mm | 1.00mm | 1.50mm  |
| 51-55    | 0.23mm                                     | 0.60mm | 1.00mm | 1.50mm  |
| 56-60    | 0.23mm                                     | 0.60mm | 1.00mm | 1.50mm  |
| 61-65    | 0.23mm                                     | 0.60mm | 1.00mm | 1.50mm  |
| 66-70    | 0.23mm                                     | 0.60mm | 1.00mm | 1.75mm  |
| 71-75    | 0.23mm                                     | 0.60mm | 1.00mm | 2.00mm  |
| 76-80    | 0.23mm                                     | 0.60mm | 1.00mm | 2.07mm  |
| 81-85    | 0.23mm                                     | 0.60mm | 1.00mm | 2.14mm  |
| 86-90    | 0.23mm                                     | 0.60mm | 1.01mm | 2.21mm  |
| 91-95    | 0.23mm                                     | 0.60mm | 1.10mm | 2.29mm  |
| 96-100   | 0.23mm                                     | 0.60mm | 1.19mm | 2.36mm  |
| 101-105  | 0.23mm                                     | 0.60mm | 1.28mm | 2.43mm  |
| 106-110  | 0.23mm                                     | 0.60mm | 1.36mm | 2.50mm  |
| 111-115  | 0.23mm                                     | 0.60mm | 1.45mm | 2.57mm  |
| 116-120  | 0.23mm                                     | 0.60mm | 1.53mm | 2.64mm  |
| 121-125  | 0.23mm                                     | 0.66mm | 1.61mm | 2.71mm  |
| 126-130  | 0.23mm                                     | 0.71mm | 1.69mm | 2.79mm  |
| 131-135  | 0.23mm                                     | 0.75mm | 1.77mm | 2.86mm  |
| 136-140  | 0.23mm                                     | 0.80mm | 1.85mm | 2.93mm  |
| 141-145  | 0.23mm                                     | 0.85mm | 1.94mm | 3.00mm  |
| 146-150  | 0.23mm                                     | 0.87mm | 2.02mm | 3.19mm  |
| 151-155  | 0.23mm                                     | 0.88mm | 2.05mm | 3.37mm  |
| 156-160  | 0.24mm                                     | 0.89mm | 2.10mm | 3.56mm  |
| 161-165  | 0.24mm                                     | 0.90mm | 2.14mm | 3.74mm  |
| 166-170  | 0.24mm                                     | 0.90mm | 2.18mm | 3.93mm  |
| 171-175  | 0.24mm                                     | 0.91mm | 2.23mm | 4.13mm  |
| 176-180  | 0.24mm                                     | 0.92mm | 2.27mm | 4.36mm  |

| Hp/A    | Thickness for the fire resistance required |        |        |         |
|---------|--|--------|--------|---------|
|         | 30 min                                     | 60 min | 90 min | 120 min |
| 181-185 | 0.25mm                                     | 0.92mm | 2.32mm | 4.58mm  |
| 186-190 | 0.25mm                                     | 0.93mm | 2.36mm | 4.80mm  |
| 191-195 | 0.25mm                                     | 0.94mm | 2.40mm | 5.02mm  |
| 196-200 | 0.25mm                                     | 0.95mm | 2.45mm | 5.24mm  |
| 201-205 | 0.25mm                                     | 0.95mm | 2.49mm | 5.47mm  |
| 206-210 | 0.26mm                                     | 0.96mm | 2.54mm | 5.69mm  |
| 211-215 | 0.26mm                                     | 0.97mm | 2.58mm | 5.91mm  |
| 216-220 | 0.27mm                                     | 0.97mm | 2.62mm | 6.13mm  |
| 221-225 | 0.27mm                                     | 0.98mm | 2.67mm | 6.36mm  |
| 226-230 | 0.28mm                                     | 0.99mm | 2.71mm | 6.58mm  |
| 231-235 | 0.28mm                                     | 1.00mm | 2.75mm | –       |
| 236-240 | 0.29mm                                     | 1.00mm | 2.80mm | –       |
| 241-245 | 0.29mm                                     | 1.04mm | 2.84mm | –       |
| 246-250 | 0.30mm                                     | 1.06mm | 2.89mm | –       |
| 251-255 | 0.30mm                                     | 1.09mm | 2.93mm | –       |
| 256-260 | 0.31mm                                     | 1.12mm | 2.97mm | –       |
| 261-265 | 0.31mm                                     | 1.14mm | 3.02mm | –       |
| 266-270 | 0.32mm                                     | 1.17mm | 3.14mm | –       |
| 271-275 | 0.32mm                                     | 1.19mm | 3.24mm | –       |
| 276-280 | 0.33mm                                     | 1.22mm | 3.34mm | –       |
| 281-285 | 0.33mm                                     | 1.25mm | 3.44mm | –       |
| 286-290 | 0.34mm                                     | 1.27mm | 3.54mm | –       |
| 291-295 | 0.34mm                                     | 1.30mm | 3.64mm | –       |
| 296-300 | 0.35mm                                     | 1.33mm | 3.74mm | –       |
| 301-305 | 0.35mm                                     | 1.35mm | 3.84mm | –       |
| 306-310 | 0.36mm                                     | 1.38mm | 3.94mm | –       |
| 311-315 | 0.36mm                                     | 1.41mm | 4.04mm | –       |
| 316-320 | 0.37mm                                     | 1.43mm | 4.32mm | –       |

NOTE: The above tables are based on report no. WF 176738A.

## Cafco SPRAYFILM® WB3

### Water Based Intumescent Coating

#### FIRE PROTECTION THICKNESS

TABLE 7 Cafco SPRAYFILM® WB3 thicknesses for hollow section beams and columns (4-sided exposure). Critical temperature 550°C. (BS476: Part 21: 1987)

| Hp/A     | Thickness for the fire resistance required |        |        |         | Hp/A    | Thickness for the fire resistance required |        |        |         |
|----------|--|--------|--------|---------|---------|--|--------|--------|---------|
|          | 30 min                                     | 60 min | 90 min | 120 min |         | 30 min                                     | 60 min | 90 min | 120 min |
| Up to 45 | 0.23mm                                     | 0.40mm | 1.80mm | 3.50mm  | 181-185 | 0.41mm                                     | 1.27mm | 3.43mm | –       |
| 46-50    | 0.23mm                                     | 0.40mm | 1.80mm | 3.50mm  | 186-190 | 0.41mm                                     | 1.30mm | 3.48mm | –       |
| 51-55    | 0.23mm                                     | 0.42mm | 1.80mm | 3.50mm  | 191-195 | 0.42mm                                     | 1.32mm | 3.57mm | –       |
| 56-60    | 0.23mm                                     | 0.44mm | 1.80mm | 3.50mm  | 196-200 | 0.42mm                                     | 1.35mm | 3.70mm | –       |
| 61-65    | 0.23mm                                     | 0.47mm | 1.80mm | 3.50mm  | 201-205 | 0.43mm                                     | 1.37mm | 3.82mm | –       |
| 66-70    | 0.23mm                                     | 0.49mm | 1.80mm | 3.50mm  | 206-210 | 0.43mm                                     | 1.40mm | 3.94mm | –       |
| 71-75    | 0.24mm                                     | 0.51mm | 1.93mm | 3.50mm  | 211-215 | 0.44mm                                     | 1.42mm | 4.06mm | –       |
| 76-80    | 0.24mm                                     | 0.53mm | 2.07mm | 3.50mm  | 216-220 | 0.44mm                                     | 1.44mm | 4.19mm | –       |
| 81-85    | 0.25mm                                     | 0.56mm | 2.20mm | 3.50mm  | 221-225 | 0.45mm                                     | 1.47mm | 4.31mm | –       |
| 86-90    | 0.25mm                                     | 0.58mm | 2.34mm | 3.50mm  | 226-230 | 0.45mm                                     | 1.49mm | 4.43mm | –       |
| 91-95    | 0.25mm                                     | 0.60mm | 2.47mm | 3.50mm  | 231-235 | 0.46mm                                     | 1.52mm | 4.55mm | –       |
| 96-100   | 0.26mm                                     | 0.66mm | 2.54mm | 3.50mm  | 236-240 | 0.46mm                                     | 1.54mm | 4.68mm | –       |
| 101-105  | 0.27mm                                     | 0.72mm | 2.59mm | 3.67mm  | 241-245 | 0.47mm                                     | 1.56mm | 4.80mm | –       |
| 106-110  | 0.28mm                                     | 0.78mm | 2.65mm | 3.94mm  | 246-250 | 0.47mm                                     | 1.59mm | 4.92mm | –       |
| 111-115  | 0.28mm                                     | 0.84mm | 2.70mm | 4.22mm  | 251-255 | 0.48mm                                     | 1.61mm | 5.04mm | –       |
| 116-120  | 0.29mm                                     | 0.90mm | 2.75mm | 4.50mm  | 256-260 | 0.48mm                                     | 1.64mm | 5.17mm | –       |
| 121-125  | 0.30mm                                     | 0.96mm | 2.80mm | 4.78mm  | 261-265 | 0.49mm                                     | 1.66mm | 5.29mm | –       |
| 126-130  | 0.31mm                                     | 1.02mm | 2.85mm | 5.06mm  | 266-270 | 0.49mm                                     | 1.68mm | 5.41mm | –       |
| 131-135  | 0.32mm                                     | 1.03mm | 2.91mm | 5.33mm  | 271-275 | 0.50mm                                     | 1.71mm | 5.53mm | –       |
| 136-140  | 0.33mm                                     | 1.06mm | 2.96mm | 5.61mm  | 276-280 | 0.50mm                                     | 1.73mm | 5.66mm | –       |
| 141-145  | 0.34mm                                     | 1.08mm | 3.01mm | 5.89mm  | 281-285 | 0.50mm                                     | 1.76mm | 5.78mm | –       |
| 146-150  | 0.35mm                                     | 1.11mm | 3.06mm | 6.17mm  | 286-290 | 0.51mm                                     | 1.78mm | 5.90mm | –       |
| 151-155  | 0.36mm                                     | 1.13mm | 3.11mm | 6.44mm  | 291-295 | 0.51mm                                     | 1.80mm | 6.02mm | –       |
| 156-160  | 0.37mm                                     | 1.15mm | 3.17mm | –       | 296-300 | 0.52mm                                     | 1.86mm | 6.15mm | –       |
| 161-165  | 0.38mm                                     | 1.18mm | 3.22mm | –       | 301-305 | 0.52mm                                     | 1.90mm | 6.27mm | –       |
| 166-170  | 0.39mm                                     | 1.20mm | 3.27mm | –       | 306-310 | 0.53mm                                     | 1.95mm | 6.39mm | –       |
| 171-175  | 0.40mm                                     | 1.23mm | 3.32mm | –       | 311-315 | 0.53mm                                     | 1.99mm | 6.51mm | –       |
| 176-180  | 0.40mm                                     | 1.25mm | 3.38mm | –       | 316-320 | 0.54mm                                     | 2.04mm | –      | –       |

NOTE: The above tables are based on report no. WF 176738B.



## Cafco SPRAYFILM® WB3

### Water Based Intumescent Coating

#### TOP COATING

In exposed and semi-exposed exterior environments, Cafco SPRAYFILM® WB3 should be coated with a compatible water resistant finish coat in order to give the desired colour and to seal the Cafco SPRAYFILM® WB3.

The topcoat system must be suitable for the environment in which it is to be used, and should be a good quality, long oil alkyd, silicone, acrylic latex or polyurethane type. All topcoats should be applied in accordance with the topcoat manufacturer's recommendations.

Ensure that the correct DFT of Cafco SPRAYFILM® WB3 is applied and is thoroughly dry before application of any top coat.

Typically, allow a minimum of 7 days for the Cafco SPRAYFILM® WB3 to fully cure before application of any top coat system.

For the top coat compatibility and minimum thickness requirements, always consult Promat.

#### PACKAGING

25kg plastic pails.

#### STORAGE

- Indoors in dry conditions between 10°C and 38°C.
- Protect from frost, excessive heat (above 45°C) and strong radiant sunlight.

#### SHELF LIFE

Maximum 10 months in original sealed containers.

#### ENVIRONMENTAL

Do not discharge into drains, watercourses or soil.



For latest information of the Promat Asia Pacific organisation, please refer to [www.promat-ap.com](http://www.promat-ap.com)

## ASIA PACIFIC HEADQUARTERS

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

## AUSTRALIA

**Promat Australia Pty. Ltd.**  
1 Scotland Road  
Mile End South, SA 5031  
Tel: 1800 PROMAT (776 628)  
Fax: +61 (8) 8352 1014  
Email: [mail@promat.com.au](mailto:mail@promat.com.au)

### New South Wales Office **Promat Australia Pty. Ltd.**

Unit 1, 175 Briens Road  
Northmead, NSW 2152  
Tel: 1800 PROMAT (776 628)  
Fax: +61 (2) 9630 0258  
Email: [mail@promat.com.au](mailto:mail@promat.com.au)

### Victoria Office

**Promat Australia Pty. Ltd.**  
Suite 205, 198 Harbour Esplanade  
Docklands, VIC 3008  
Tel: 1800 PROMAT (776 628)  
Fax: 1800 334 598  
Email: [mail@promat.com.au](mailto:mail@promat.com.au)

### Queensland Office

**Promat Australia Pty. Ltd.**  
Unit 2 Level 1  
49 Gregory Tce  
Spring Hill, QLD 4000  
Tel: 1800 011 376  
Fax: 1800 334 598  
Email: [mail@promat.com.au](mailto:mail@promat.com.au)

## 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: [info@promat.com.cn](mailto:info@promat.com.cn)

### Beijing Office

**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: [info@promat.com.cn](mailto:info@promat.com.cn)

For Promat International groups worldwide:  
[www.promat-international.com](http://www.promat-international.com)

1. This document is produced on the basis of information and experience available at the time of preparation. Promat is constantly reviewing and updating all of its test data and reserves the right to change products and specifications without notice.
2. Promat is not responsible if recipients of fire test reports, assessments or literature incorrectly interpret said contents and use products based on those interpretations.

## 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](mailto:spraysinfo@promat-ap.com)

## 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](mailto:spraysinfo@promat-ap.com)

### Bangalore Office

**Promat International (Asia Pacific) Ltd.**  
*(India Representative Office)*  
Cabin No.BC-9 & BC-10  
Oculus Workspaces, No.66/1, 2nd Floor  
Coles Road, Frazer Town  
560005 Bangalore  
Tel: +91 (80) 4031 4151  
Fax: +91 (80) 4125 2135  
Email: [spraysinfo@promat-ap.com](mailto:spraysinfo@promat-ap.com)

### Mumbai Office

**Promat International (Asia Pacific) Ltd.**  
*(India Representative Office)*  
Stylus Serviced Offices  
Ground Floor, Velocity  
Phase 1, Logitech Park  
Andheri Kurla Road, Andheri East  
400072 Mumbai  
Tel: +91 (22) 6769 4567  
Fax: +91 (22) 6769 4568  
Email: [spraysinfo@promat-ap.com](mailto:spraysinfo@promat-ap.com)

## 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](mailto:spraysinfo@promat-ap.com)

## SINGAPORE

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

### Your local Promat supplier

