

Introduction

CAFCO® 300 is a gypsum / vermiculite spray system that can provide up to 240 minutes fire protection to structural steel sections for dry internal use applications.

CAFCO® 300 can be applied directly on to clean bare 'ginger' steel or clean oil-free galvanised steel for internal use.

All other conditions will require some form of preparation. This may simply be a requirement for degreasing, de-scaling or the removal of loose rust to restore the surface condition to those above, but if the steels have been primed, then CAFCO® Bondseal must be applied prior to the application of CAFCO® 300.

Primer Compatibility

There are few compatibility issues with primers because CAFCO® 300 does not contain cement, but CAFCO® Bondseal must be used as an adhesive coat unless successful adhesion testing has been carried out on the primer.

CAFCO® Bondseal and CAFCO® 300 coats must only be applied onto primers which are in good condition. The primer surface must be clean, dry and free from dust, oil or any other contaminant that may inhibit good adhesion and any damage to the primer must be repaired.

All primer types must have been applied in accordance with the manufacturer's guidance.

Promat sprayed products are only applied by Promat CRA Contractors, who are trained in the mixing and spray application techniques required for this particular product.

The most important factor for the contractor to consider is the compatibility of the spray product with the surface it is being applied to – it must stick to it and stay there.

It is therefore the Promat CRA Contractor's responsibility to ensure that the substrate to be protected is in a suitable condition to accept the coating and that any primer used is fully cured.

In situations where the Promat spray products may need to be applied over either old or existing primed and painted steelwork - as may be the case in refurbishment situations, the paint types will need to be properly identified and be in sound condition, or else they will require to be removed.

Existing topcoats should ideally be completely removed by sweep blasting, taking care to only remove the topcoat paint, and not the primer paint layers beneath it.

As an alternative to sweep blasting, the topcoat surface (or even a glossy primer) must be thoroughly mechanically abraded over the entire surface, using power sanding tools so that the shiny gloss finish of the paint is removed.

(In cases where Intumescent Fire Resistant Paint Coatings may have been applied, then the coating *must be completely removed* back to bare metal if CAFCO® 300 is to be subsequently used.)

If the primer used cannot be clearly identified or there is still doubt regarding the requirements for the application of CAFCO® Bondseal and CAFCO® 300, contact Promat Technical Services Department for clarification, before any application work is carried out.

Spray Application of CAFCO® 300

An appropriately diluted CAFCO® Bondseal is applied to form an adhesive coat. Full details of the adhesive coat are given in the CAFCO® 300 Application Manual.

CAFCO® Bondseal can be applied by brush or pressure spray, such as a garden spray pump, but must not be applied by roller.

The diluted CAFCO® Bondseal should be liberally applied as a strip or spatter application until it begins to drip/run, 100% coverage is not required, and the CAFCO® 300 spray must be applied onto the CAFCO® Bondseal while it is still wet and tacky. The CAFCO® Bondseal *should not be allowed to dry as it will not function as an adhesive coat*. If this does occur then the CAFCO® Bondseal will require to be reapplied before the CAFCO® 300 can be used.

AUTHORITY: Promat Recommendation - Based on in-house knowledge and Technical Experience

Technical Data
Sheet – 134

Page 1 of 1
(April 2010)



Promat UK Limited
Technical Services Department
The Sterling Centre, Eastern Road
Bracknell, Berkshire RG12 2TD
Tel: 01344 381 400
Fax: 01344 381 401
E-mail: technicaluk@promat.co.uk

