FIREPRO
FIRE PROTECTIVE BUILDING PRODUCTS

HEAD OFFICE: AUCKLAND (09) 579 0367
WELLINGTON (04) 568 7086 • CHRISTCHURCH (03) 379 9364
www.firepro.co.nz sales@firepro.co.nz

CI/SfB
S707 DATASHEET - 24.02.2012

Product specifications can change. Contact us to ensure you have our latest datasheet

FIREPRO Nullifire S707 /60, S707/120 Waterborne intumescent coating systems for fire rating structural steel

S707/60 for 30,60 and 90 mins
S707/120 for 90, 120 mins

DESCRIPTION

Waterborne coatings with the very low VOC content of 15 grams/litre (ISO 3233:1998)

This is the envionmentally friendly coating system ideal for use on Green designated buildings for the fire rating of structural steel. It does not increase solvent use on site while it enables the steel to be highlighted as a feature of the building design.

The Basecoat is applied to the steel as a paint. In a fire the coating expands to insulate and protect the substrate from the effects of the fire. The Topseal protects the Basecoat against moisture and damage while providing the decorative finish.

SPECIFICATION

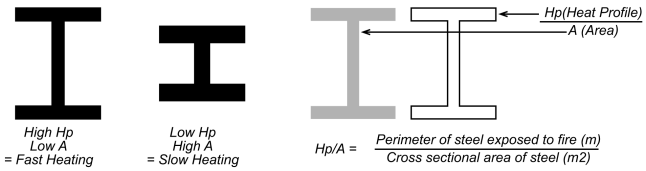
S707/60 is used for 30 - 90 minutes fire rating
S707/120 for 90 - 120 minutes fire rating

Apply Firepro Nullifire S707 System to achieve 30, 60, 90, 120 minutes Fire Resistance.
Overcoat with Firepro Topseal to colour finish if required.

QUANTITY OF BASECOAT REQUIRED

Hp/A calculations and correct thickness to use can be calculated for you by Firepro Centabuild Ltd.

The Hp/A ratio, sometimes termed the section factor, is a ratio used to quantify the heating rate of a steel member in a fire. The Hp/A value is a ratio of perimeter length, Hp, to cross section area, A.



To calculate the loadings the following information is required:
1. Time period of Fire rating required.
2. Steel section specification, eg: 310 UB 40kg 310 UB 46kg
3. Is the steel section used as a beam or column
4. The number of sides exposed to flame

STEEL PREPARATION AND PRIMERS

System S707 is applied over primed surfaces that have been suitably prepared.

Primed steel should have grease, oil, other paint coatings and any contaminants removed before basecoat application.

Before priming it is recommended that steel surfaces be blast cleaned to SA2½. Where blast cleaning is not practical, millscale, rust and old coatings should be removed by power tools such as power wire brushing to AS1627.2 ST2 taking care not to burnish the steel.

PRIMERS: The recommended primer for non galvanised steel is Firepro C627 High Performance Red Oxide Primer. Other primers may be suitable, but Firepro cannot guarantee their performance. Primers based on chlorinated rubber, bitumen, thermoplastic or epoxy coatings are not suitable.

APPLICATION

S707 is a universal grade and may be applied by brush, roller or airless spray. Application by airless spray will give the best standard of finish. S707 is intended for use by professional applicators of high performance coatings in building construction situations.
See separate Application Notes for details.
Registered Applicators available.

COLOUR and TOPSEAL

Stock colour - white. Tinted topseals may be used.

REDECORATION

S707 basecoats can be re-decorated with the appropriate topseal. Any damage to coatings can be repaired.

DURABILITY

The S707 intumescent systems are for use on dry protected structural steel only. The system provides a durable finish. However, if damaged the area should be abraded back to a sound surface before re-application. Once repaired, re-apply topseal.

APPROVALS and TESTING

Fully fire tested to BS476 Part 20/21: in line with the ICF and ASFP guidelines for 30,60,90 and 120 minutes.
Surface Spread of Flame and Propagation tested to BS476:Part 6/7, Class 0
Smoke and Toxicity tested to EN13823(SBI) and IMO smoke/toxicity

CERTIFICATE OF SUPPLY

Firepro provides a Certificate of Supply. The Certificate includes confirmation signed by the Applicator that the product has been applied in accordance with specification.