



SPECIFICATION GUIDE

pyroplast-ST100

**A waterborne intumescent coating for
the fire protection of structural steelwork.**



Third Party Certificated Product

Completely water based system

Full colour range of top coats available

**Upgrades internal structural steelwork to up to 120 minutes fire resistance
in accordance with BS476 : Part 21 : 1987**



coatmaster, pampisford, cambridge cb22 3hg
Tel: 01223 832005 fax: 01223 837215
info@coatmaster.co.uk www.coatmaster.co.uk

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DESCRIPTION

pyroplast-ST100 is a waterborne intumescent coating for the fire protection of internal structural steelwork. pyroplast-ST100 will upgrade the fire resistance of steelwork to up to 120 minutes in accordance with BS476 : Part 21 : 1987. The complete fire protection system comprises:-

Primer: [pyroplast-ST120 primer](#)
Intumescent: [pyroplast-ST100](#)
Top sealer: [pyroplast-ST120 top](#)

SPECIFICATION

Apply [pyroplast-ST100](#) onto suitably prepared steelwork to achieve 30/60/90/120 minutes fire resistance in accordance with BS476 : Part 21 : 1987. Apply the coating at the recommended application rate to achieve the required dry film thickness in accordance with the Coatmaster Application Guide. Overcoat with [pyroplast-ST120 top](#) to achieve required colour.

APPROVALS

Pyroplast-ST100 is a third party certified product meeting the requirements of Certifire technical schedule TS15 Intumescent Coatings for Steelwork.

Certifire certificate of approval CF744 issued 9th July 2010

APPLICATION RATES

The application rate for [pyroplast-ST100](#) depends on the fire resistance period required and the Section Factor for each steel section. For full application rate tables see the [pyroplast-ST100](#) application guide or for assistance in calculating the required application rates please contact Coatmaster technical support.

SITE CONDITIONS

[pyroplast-ST100](#) is suitable for internal, weather tight environments only. The product must only be applied in temperatures between 10°C and 30°C and a maximum relative humidity of 80%.

SURFACE PREPARATION

Untreated surfaces should be prepared by blast cleaning to BS 7079:1989. Wire brushing may be acceptable where blast cleaning is not possible. Galvanised surfaces should be degreased before priming. Existing primed surfaces should be prepared by removing all poorly adhering coatings, touched up as necessary with a suitable primer and checked for compatibility with [pyroplast-ST100](#)

PRIMING

The prepared steel surface must be primed with a suitable primer e.g. [pyroplast-ST120 primer](#). For advice on priming please contact Coatmaster.

METHOD OF APPLICATION

[pyroplast-ST100](#) may be applied by brush roller or airless spray:-

Brush:	600g/m ² /coat
Roller:	400g/m ² /coat
Airless Spray:	1400g/m ² /coat

DRYING

[pyroplast-ST100](#) is overcoatable in 8-12 hours depending on the application conditions. [pyroplast-ST100](#) must be thoroughly dry before coating with [pyroplast-ST120 top](#).

MAINTENANCE

Minor mechanical damage may be repaired by removing the damaged coating back to a sound surface and applying fresh material by brush or roller.

OTHER COATMASTER PRODUCTS

pyroplast-HW100	for the fire retardant protection of timber.
pyroplast-C	for the fire protection of cables.

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