



Product Data Sheet

Firesteel Classic 120 Solvent Intumescent Coating

Product Type

A solvent-based thin-film intumescent coating which has a very high tolerance of adverse site conditions.

Recommended Use

A coating to provide up to two hours fire protection to structural steel and cast iron, for use in internal situations, and externally with two coats of top seal.

Contact Firetherm Technical Department for advise. (Tel. +44 (0)1322 551010)

Approvals

BS 476 Pt 21 at Warrington Fire Research.

Approved in several countries around the world – apply to Export Sales Department for further details.

Recommended Application Methods

Airless spray, roller or brush. Greco King 65:1, GM 5000/7000 or similar. Recommended tip size 17 - 23 thou. Hose diameter 3/8" (10mm).

Surface Preparation

Degrease and remove weld flux and contamination if required prior to shot blasting. Grind away weld splatter and radius sharp edges. Blast clean to Swedish Standard SIS 05 5900 Sa 2.5 or British Standard 7079. Maximum blast profile 75 microns.

Apply a suitable primer within four hours to a suitable DFT. Consult Firetherm Technical Department (+44 (0)1322 551010) for advise and confirmation of primer compatibility. All surfaces should be clean, dry and free from all grease, oil, oxidation and general contamination before coating.

If steel is galvanised, degrease surface and apply primer suitable for direct application or use mordant solution or etch wash followed by a suitable primer.

If steel is rusty or has existing old coatings in poor condition contact Technical Department (+44 (0) 1322 551010). Primers are available which in conjunction with surface abrasion may be suitable.

Existing coatings should not exceed 250 microns.

Application Notes

Apply in conditions of good ventilation that should be maintained during drying or use closed air respiration system. Do not apply when humidity exceeds 80%.

Do not apply if temperature falls below 5 °C. Steel temperature must be 3 °C above dew point.

Colour

Matt off-white

Flash Point

26°C

% Solids / Specific Gravity

69% / 1.29

VOC

335 gm / litre. EPA compliant.

Coating Thickness

Refer to Firesteel loading table. (DFT 200 - 3630 MICRONS)

Practical Loading Rates

Spray: 1200 microns wet film

Brush: 500 microns wet film

Average Drying Times

In still air conditions the following times can be achieved with an RH of below 70%.

500 microns wet film

10 °C- touch dry 1hr - re-coatable / handleable 2hrs

20 °C- touch dry 1hr - re-coatable / handleable 2-3hrs

25 °C-touch dry 30-45mins - re-coatable / handleable 1hr

1000 microns wet film

10 °C-touch dry 6hrs - re-coatable / handleable 12hrs

20 °C-touch dry 1hrs - re-coatable / handleable 8hrs

25 °C-touch dry 1/2hrs - re-coatable / handleable 4hrs

These figures are subject to further British Standard Testing.

Recommended Thinner

Xylene

Recommended Primers

A wide range of single and two-pack primers has been tested satisfactorily.

Please contact **Firetherm Technical Department**
+ 44 (0)1322 551010 for further information.

Topsealers / Topcoats

Firesteel Classic 120 does not require a topcoat in internal conditions, whether exposed to view or not.

A range of top seals is available in the full BS 4800, RAL, BS 381C, BS 2660, NCS and TVT colour range where required.

Packaging

Firesteel Classic 120 is a single pack product.
Packed in 20 litre tubs, weighing approx. 27 kg each.
Shelf life 12 months. Store between 5°C and 30°C.

Storage

Store in dry cool condition (5 °C - 30 °C) in shade. Store air conditioned or heated containers as required.

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