

PRODUCT DESCRIPTION

CHARFLAME® is a single component, and APEO free, water-borne intumescent coating for fire protection of internal structural steelwork.

Its purpose is to keep resistance and bearing capacity of structural steel until fire extinction, or building evacuation.

HOMOLOGATIONS AND CERTIFICATIONS

CHARFLAME® has been tested in official laboratories with EN 13381-8 and BS476 Parts 20-21, and has **European Technical Approval ETA- 15/0146**.

PRODUCT TECHNICAL SPECIFICATIONS

Colour	White
Finish	Matt
% solids	71 ±2
VOC	Without VOC, EU Solvent Emissions Directive (Council Directive 1999/13/EC).
Recommended thickness	350-550 microns dry in one coat, depending on the method of application.
Theoretical coverage	1 m ² /L at 696 microns or 1m ² /kg at 497 microns.
Method of application	Airless spray, Brush or Roller.
PH	8.0 ± 1
Flash point	> 100°C
Specific weight	1,37±0,03
Recoat	24 hours at 20° C and 60% RH.
Thinner	Clean only with water.
Fire resistance	R-15', R-30', R-60', and R-90' for beams and columns I sections and R-30' for hollow sections.

SURFACE PREPARATION

The steel to be coated must be clean, dry and free from any grease, oil, dust or contamination which may avoid the proper adhesion of **CHARFLAME®** on the primer.

Primers:

Anti-corrosive primer must be approved in the ETA and should be applied in accordance with the manufacturer's instructions. Primers must have the certificate of classification Bs2d0 under ENV-13501-1.

If a zinc rich primer is used, it has to be checked if there is any Zinc salt coat on the surface to be protected. Any salts must be completely removed prior to the application of **CHARFLAME®**.

APPLICATION AND FINISHING

CHARFLAME® is supplied ready to use and should be thoroughly mechanically stirred prior to use.

Recommended application is by airless spray, although a brush or roller can also be used for small areas and repairs.

Clean only with water and never use solvent.

In type Y environmental conditions, **CHARFLAME®** can be sealed with a topcoat which has a certificate of classification Bs2d0, as specified in its ETA according to ENV-13501-1.

Sealing must be complete and **CHARFLAME®** reactive coat must be completely dried and cured before applying the topcoat.

Prevent **CHARFLAME®** from strong winds and high temperatures during its application to avoid its quick and anomalous drying. In these conditions, small coats are recommended. Drying time depends on atmospheric temperature, steel temperature and existing air movement.

Quick drying as it is water borne.

Recoating is recommended the next day.

Surface temperature must always be a minimum of 4°C above dew point. Avoid its application when there is any risk of steel condensation. Appropriate ventilation is recommended.

STORAGE, ENVIRONMENT, SECURITY AND HYGIENE

Storage
The reactive coating **CHARFLAME®** should be correctly stored internally in dry environments between 5° C and 35° C. It must be protected from freezing and strong sun. Shelf life of the product is 12 months from its manufacturing date depending on its storage conditions.

Environment
Prevent material from entering into sewers, waterways, or ground etc., and observe Waste Regulations.

Hygiene and Security
Please, consult MSDS.

