



Firebreak coating of progressive intumescence.

DESCRIPTION

Its specific aim is to delay the destructive action of fire. It reacts in presence and contact with flame, by swelling up, producing a multicellular isolation, of extinguishing effects.

It extends the stability of structures and building elements undergoing high temperatures resulting of a fire.

APPLICATIONS

Fire protection of all types of structural steel elements.

Due to its special performances, it is used in the passive protection against fire in structural elements in both private and public buildings (flats, offices, hotels, hospitals, schools, stores, theatres and cinemas, stairs, etc.), in accordance with the requirements of the Technical Building Code of Spain.

Living quarters on vessels and ships. It is particularly used as a passive fire protection system in the general industry, specially recommended for high fire risk areas (industrial halls and warehouses, supports, boards, silos, etc.), in accordance with the requirements of the Fire Safety Regulations in industrial establishments of Spain.

TECHNICAL DATA

PRODUCT INFORMATION BEFORE APPLICATION

Colour	White 90, grey 994.
Finish	Mat.
Specific weight	1,39 ± 0,15
Recommended dry weight:	since 140µ to >600µ per coat(*)
% Solids in volume:	62% ± 1%
Spreading rate per coat (600µ):	1,03m ² /Lt. = 0,74 m ² /Kg.
Dry-to-touch time:	2 hours, to 20°C and 60% RH.
Repaintable from:	24 hours, at 20°C and 60% RH.
Hardening:	5 days, at 20°C and 60% RH.
Indicated Thinner:	SRF1 (exclusive)
VOC (supply form):	360 gr/lit.

(*) - Depends on the chosen application system and the geometry of the elements to be protected. Avoid applying a thickness that can produce tears and drips by excess of layer.

SUPPORT TREATMENT

Metal surfaces: Previous application of a good primer, with anticorrosion properties and fire-proof.

Non metal surfaces: On wood, plaster, concrete, etc. please contact our Technical Assistance Department.

METHOD FOR APPLICATION

Stir thoroughly the container content, with mechanic stirrer preferably. The product is presented ready for use. To easy airless application, it can be diluted with maximum 10% SRF1 solvent. Do not use any other solvents.

Brush	For touch-ups and small areas only. Apply with no dilution
Roller	Apply with no dilution. Use a long-napped woollen enamelling roller.
Spray gun	Pressure pot. Dilute with 5-15% of SRF1. Pressure: 4 Kgs/cm ² . Nozzle from 2.6 to 2.8 diameter.
Airless gun (*)	Dilute with 0-10% of SRF1. The equipment has to be able to offer volume of more than 5.8 lts/min, with sustained pressure of more than 120 kg/cm ² . Nozzles: 0,025" to 0,031". Adjust the nozzle angle to the profile sides to cover.

RAYSTON FIRE 1 system should be used in the interior, protected from the humidity, the weather, condensation, etc.

The system RAYSTON FIRE 1 application must be made on firm, dry substrate, at a support temperature of 3°C above dew-point, with an ambient temperature over 10°C and RH below 80%.

(*) Pneumatic guns, Electric guns or petrol guns.

CHARACTERISTICS OF THE DRY FILM

It reacts in contact with flame or at very high temperature, by swelling up, producing a multicellular foam with high isolation properties.

Non flammable. Once protection is performed, it calcinates without producing or communicating the flame.

FIRE CLASSIFICATION

*Fire stability tests between 15 and 120 minutes in charged oven according to UNE-ENV 13381-4:2002.

Certificates according to UNE-EN 13501-2:2004.

*Complies with the UNE 48287-1.

PRECAUTIONS

It is advisable to perform the application in a well-ventilated area or with a plentiful forced-air supply. Personal safety measures should be taken in order to avoid ingestion, inhalation or contact with the skin. The normal precautions for fire prevention should be taken during applications. Keep containers well sealed after use. Do not pour waste down the drain.

Storage stability: 1 year in their original, sealed containers, in good storage conditions.

OTHER INFORMATION

The information contained in this Technical Data Sheet, as well as our advice, both written as verbal or provided through testing, are based on our experience, and they do not constitute any product guarantee for the installer, who must consider them as simple information.

We recommend to study deeply all information provided before proceeding to the use or application of any of our products, and strongly advise to conduct tests "on site" in order to determine their convenience for a specific project.

Our recommendations do not exempt of the obligation of installers to deeply study the right application method for these systems before use, as well as to conduct as many preliminary tests as possible should any doubt arise. The application, use and processing of our products are beyond our control, and therefore under the exclusive responsibility of the installer. In consequence, the installer will be the only responsible of any damage derived from the partial or total in-observation of our indications, and in general, of the inappropriate use or application of these materials.

This data sheet supersedes all previous versions.