

Product's description

Fireproof, hydrodilutable, non toxic, intumescent paint with low fumes emission – certified class R.E.I. 120.

Over Fire BTR 02 W is a terpolymer resins based coating, in water emulsion, with specific pigmentation, developing a high intumescent and fireproof action, both in the humid and solid phase. In a few words, we can say that **Over Fire BTR 02 W** correctly applied over any kind of surface, resolves into a solid and a gaseous part, in case of contact with heat sources or flames.

The solid part is composed by a compact, non peeling foam (intumescence), being from 5 to 10 mm. thick. It behaves as a thermal barrier, preventing heat transmission between the substrate and the flame. Such a reaction keeps the surface from reaching high temperatures, which could damage mechanical and structural stability.

The gaseous part is produced by flame or heat sources. It forms a notable quantity of inert and chlorinated gases, which transfer and water down oxygen of the solid part, reducing combustion and fire propagation.

Practical advice

Suitable for bearing structures (trusses – beams) of sheds or iron - galvanized iron structures, wall plasters, concrete, prefabricated cement, plasterboard, wood and by-products, to be used for civil or industrial purposes: schools, hospitals, offices, canteens, theatres, discos, supermarkets, sport centres, barracks, prisons, and for any case of civil pavings and civil protection.

Technical features

Aspect	Flat
Color	Ice-white
Density Kg/Lt	1,38 ± 0,05
Viscosity 25°C	15 000 – 20 000 mpas
Solid content by volume %	60 ± 2 %
Theoretical spreading rate Sq.m/l – gr/m ²	1 Sq.m./l – 1380 g/Sq.m.
Typical thickness humid/dry micron	620
Mixing ratio Base/Hardener	Single-component product
Pot Life	Not applicable
Thinner	Water
Painting method	Brush
	Roller
	Spray with tank under pressure
	Airless Spray
	5 – 10% thinning
	5% thinning
	10 - 15 % thinning
	Nozzle's diameter 1,7 – 2,2 mm
	Tank pressure 4 – 6 kg/Sq.m. (atm)
	5 - 10 % thinning
	Nozzle's diameter 0,6 – 0,8 mm
	Compression Ratio 30:1
	Exit Pressure 150 – 180 kg/ Sq.m. (atm)
Drying times 25°C	Untouched :
	Dry to the touch :
	Absolutely dry :
Min./ Max. over-coating times	4 hours
Flash point	8 hours
Shelf life	48 hours
Standard package	24 hrs. / no limitation
	Uninflammable
	12 months
	kg 20

Notes

Store the product at temperatures above +5°C and below 40°C, protected from direct sunlight and in its tins tightly closed. Do not apply at temperatures below +8°C and above +35°C, with relative humidity above 80%.

**Application
instructions**

Preparation of the surfaces

New iron: Sandblasted with SA 2 degree (SSPC SP 6) and primed with organic/inorganic cold zincking product (Zincometal – Inorzinc), or mechanically brushed with ST 3 degree (SSPC SP 3) and primed with thinner based Atriarapid primer monocomponente and with water based Idroepox primer bicomponente or with thinner based Primepox or Mixide primer bicomponenti. After at least 24 hrs., apply **Over Fire BTR 02 W**, as indicated in the application notes.

Painted iron: remove any trace of peeling paintwork, sand thoroughly the surface, remove any trace of dust or dirt and apply over uncoated areas Atriarapid or Primepox. After drying, apply one coat of insulating intermediate Epofond or Idrosem. Allow at least 24 hrs. drying and apply **Over Fire BTR 02 W**, as indicated in the application notes

Galvanized iron: clean the surface with a thinner to remove any trace of surface oil and apply at least one coat of Zincofond bicomponente. Allow at least 24 hrs. drying and apply **Over Fire BTR 02 W**, as indicated in the application notes

New wood: sanded and primed with one coat of Atriawood impregnante or Legnomac impregnante. Allow at least 24 hrs. drying and apply **Over Fire BTR 02 W**, as indicated in the application notes

Old wood: remove any peeling paintwork. Sandblast thoroughly the surface to be treated. Even out any imperfections with the water based putty New Stucc, , or with CLS 5 smoothing product or with the paste putty, New Stucc. After drying, apply **Over Fire BTR 02 W**, as indicated in the application notes.

Walls painted with hydro paints or with quartziferous, plastic coating: make sure that the surface is adherent on the substrate and is not peeling. Remove any trace of dust, dirt and peeling coatings. Even out any imperfections with New Stucc, , or with CLS 5 smoothing product. After drying, apply evenly one coat of anchoring, double-component, water based, insulating primer Idrosem. Allow at least 24 hrs. drying and apply **Over Fire BTR 02 W**, as indicated in the application notes

Application note: apply even with temperatures below 0° and above + 40° with air humidity below 90%. Do not apply in direct sunlight.

Over Fire BTR 02 W is a coating having specific features and must be applied, according to the following table:

CLASS	DRY THICKNESS	HUMID THICKNESS	THEORICAL COMSUMPTION
REI 120	630 micron	1000 micron	Kg 1,400
REI 90	450 micron	725 micron	Kg 1
REI 60	300 micron	485 micron	Kg 0,670
REI 30	200 micron	325 micron	Kg 0,450

This table indicates the minimum necessary thickness to obtain the required class. Optimal application of Over Fire BTR 02, is reached through the airless system, by applying three coats and allowing 24 hrs. drying between them. (210 dry micron – 365 humid micron per coat, including 8% thinning). On the contrary, this thickness is reached with other systems, by applying more coats, with a consumption of kg 1,400 per Sq.m. **Over Fire BTR 02 W**, because of its porosity and contents, must be coated with an unsaponifiable, fireproof, low fumes emission, chlorinated finish, such as Sinclor BF – thinner based, or Idrolux BF, water based product, both in external (for a weather proof protection) and in internal surfaces (for a dust proof, non absorbing protection).

**It is recommended
for**

External and internal surfaces treated with an unsaponifiable chlorinated finish – country, marine, industrial environments.

**It is not
recommended for**

Direct exposure to bad weather and constant immersion.

Linea : Industry Scheda tecnica n° 02.05.02 Rev.1 01/02/01 Over Fire BTR 02 W

**Recommended
primers**

Atriarapid, Primepox, Idroepox Primer, Mioxide, Epofond, Idrosem, Zincofond bicomponente, Atriawood, Legnomac impregnante.

**Recommended
finishes**

Sinclor BF, Idrolux BF.

Safety precautions

The product is unflammable.

No labelling required, according to the EEC safety standard 88/379. Do not waste residues into sewers nor in cultivated fields.

For any further information, see the technical data.

Tender Item

Application of an intumescent paint, composed by resins in water emulsion, over surfaces requiring protection from fire, with a thickness of , in compliance with REI class, with a consumption of kg/Sq.m., and Idrolux BF fireproof finish application.

(*) These information, even if reliable, are absolutely approximate. The company owns the right to change them without any notice. Moreover, it is not responsible for the use of the present information. The user must previously test the product's suitability, before using it. For any further explanations or requirements on the products, please contact the staff of our technical lab.