

FIRESTOP Wood X-MART CC Technical Specification

I FIRESTOP Fire-protection System

1.1. General information

FIRESTOP Wood X-MART CC is a modern intumescent transparent two component coating aimed for the protection of interior wood. If fire occurs, intumescent coating prevents the effects of fire and insulates constructions protecting it over a certain period of time. FIRESTOP Wood X-MART CC intumescent coating has been tested and approved by certified institutes. The copy of certification document is issued to the customers as a part of Technical documentation. For additional data consult General product info, available on request.

1.2. Definitions of terms in this document

Producer – FIRESTOP Internacional d.o.o. (data in section VIII),

Customer (buyer or investor) – one who purchased and used product,

Fireproof coating – FIRESTOP Wood X-MART CC produced by mentioned producer,

TD – stands for this document.

1.3. FIRESTOP system consists of:

Base coating - primer,

Interlayer - expanding coating,

Top layer - decorative coating.

1.4. Base coating - primer

The use of primer is not always obligatory in FIRESTOP system. Priming is recommended for the preparation and additional impregnation of wood, reduction of intumescent coatings consumption or in the case of high aesthetic requirements and for covering of small irregularities on wooden surfaces, as a base for the expanding FIRESTOP Wood X-MART CC coating. FIRESTOP Wood X-MART CC expanding coating should be applied onto a compatible base coating. We recommend:

PRIMTEC Wood, acrylic primer.

but other compatible primers can be used according to consultation with FIRESTOP Internacional technical service. The fireproof coating may be applied onto them after drying (usually after 24 hours).

Also, if the wood is already coated with other primer or top coating, contact FIRESTOP Internacional technical service for advice prior to application of FIRESTOP Wood X-MART CC coating. Surface preparation should be in accordance with the instructions for the application of the selected base coating – primer.

General conditions for application and required thickness are in technical specifications for these products.

1.5. Interlayer expanding fire-protection coating

Generic type: FIRESTOP Wood X-MART CC is a transparent expanding (intumescent) water-soluble coating intended for fire protection of wood and wooden structures.

Description: FIRESTOP Wood X-MART CC is an expanding coating forming a thin transparent film, containing materials which, at relatively low temperatures (180 - 220°C), usually as a consequence of fire, chemically react and release gases causing the coating to expand. The expanded material serves as insulator and protects wooden elements onto which it is applied for a certain period of time. FIRESTOP Wood X-MART CC is a fireproof coating protecting wood and wooden structures from fire in time intervals of 30 and 60 minutes.

Properties: * Water-based – may be used in residential buildings or places where thinner

vapors may be hazardous. It is free of halogen elements.

* High aesthetic requirements: the treated wooden surface retains visible structure and color and has a decorative look

* Use without thinner. The coating is applied after mixing of components in a recommended ratio.

* Excellent adhesiveness and a hard film.

* Application by brush or spraying, with airless spray-pump, at the construction site or elsewhere prior to wooden structure erection or on assembled construction.

* Long life in exploitation.

1.6. Top coats:

Once FIRESTOP Wood X-MART CC expanding coating is applied in the recommended DFT (dry film thickness) and when it is completely dry, a top coat may be applied onto it. The top coat makes protected elements decorative and protects fireproof coating from humidity, other atmospheric impacts and mechanical damage.

Top coat is not always obligatory in FIRESTOP system. Top coat is recommended as a protection against wear, atmospheric moisture and other harmful effects and prolongs the fire protection durability.

We recommend:

CENTURION W100 CC, synthetic clear varnish.

Also other compatible top coats can be used. General conditions for application and required thicknesses are in technical specifications for these products. Test results and additional data are available on written request.

II Physical and Chemical Data (Typical Values)

2.1. Details

Technical properties:

No.	Description	Recommended value
1.	Colour	Clear, transparent
2.	PH value	8.00 - 9.00
3.	Solid matter content	70% (+/- 2%)
4.	Density	Comp. A - 1,3 (+/-0.1) g/cm ³ Comp. B - 1,4 (+/-0.1) g/cm ³
5.	Drying time*	48 - 72 hours at 21°C
6.	VOC content	<30 g/l

*Drying time could be modified due to several factors (temperature, humidity and air circulation, film thickness etc). For more information, see Application Manual (Technical document TD-023).

Table of gases (due to combustion of intumescent coating)

No.	Description	Chemical symbol
1.	Carbon monoxide	CO
2.	Carbon dioxide	CO ₂
3.	Ammonia	NH ₃
4.	Nitrogen	N ₂
5.	Water vapour	H ₂ O

2.2. Consumption

This information refers to assumed and practical consumption. Assumed consumption of the product is conditioned by required film thickness for certain fire protection period. Practical consumption of the product is conditioned by many factors which are monitored by customers (details in section 8.3. of Technical document

TD-023).

III Approvals/Attestations

FIRESTOP Wood is tested and attested at the:

- IMS Institute Belgrade, Serbia to 30 and 60 minutes of fire protection.

Test results and additional data are available on written request as a part of Technical documents (Test report, Certificate, Attest) which can be followed by Control conformity report if it is made or other additional documents.

IV Packing, Handling and Storage

Packing:	Plastic packaging, 5 net Comp. A, 3.4 kg Comp. B or on request.
Storage:	Keep in the original closed packing. Keep indoors in a dry place. Keep from freezing. Storage temperature: 5°C-35°C.
Product life:	18 months, if stored in recommended storage conditions and in the original packing.

V Transport and Regulatory Information

ADR/RID/IMDG/IATA:	No restrictions
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Labels and Safety: Product is not classified in accordance with GHS/ CLP directives. Precautionary Statements are listed in Safety Data Sheet.

VI Conclusion

6.1. Producer liability

Producer is liable for claim that its product is fireproof in accordance with test results performed by certified institutes and published in Technical documents. This means that fire resistance is tested in accordance with valid Serbian and EN standards, as presented in Test report. To our best knowledge, technical data contained herein (and in our other technical documents, internal standards and recommendations) are true and accurate and they can be checked only according to methods mentioned in these documents. No other warranty and liability are implied. **The list of technical document is given in every our Offer to the customer. If not, customer should request these documents before accepting the Offer. In every case it is considered that customer is familiar with documents and producer liability is excluded.** Additional instructions are available on reasonable request.

Customer - user of product should contact FIRESTOP Internacional to check for data accuracy in this document before giving specification or order. We assume no liability for execution of works, application conditions, protection of coated elements from atmospheric conditions or damages inflicted due to mechanical or other effects, safety regulation on worksite, etc. except in special cases defined in special contract.

Our liability, if any, is limited to the substitution of products with other delivery.

6.2. Trademark

FIRESTOP Wood X-MART CC is a trademark of our company, legally protected in Serbian Intellectual Property Office. It is within a proprietary program: FIRESTOP – expanding fireproof coatings – state of the art protection of steel and wooden structures: registration No. 4117, report No. A-727/08/01 and registered trademark (signet) No. 57833.

VII Date of Issue of this TD

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(Basic document)

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VIII Signature



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