

Technical document: TD-019, English translation

FIRESTOP Steel X-MART 111 Additional Instructions

I FIRESTOP Fire-protection System

1.1. General information

FIRESTOP Steel X-MART 111 is an expanding (intumescent) coating aimed for the protection of steel constructions. If fire occurs, intumescent coating prevents the effects of fire and insulates constructions protecting it over a certain period of time. FIRESTOP Steel X-MART 111 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 VI),

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

Fireproof coating – FIRESTOP Steel X-MART 111 produced by mentioned producer,

TD – stands for this document.

II Storage, Transport, Exposure to Weather Conditions and Assembling

2.1. Transport

Product applied on steel construction in workshop: coating must be completely dry prior transportation (drying time in accordance with conditions mentioned in Application manual). Transportation should be in closed vehicles. If not, construction must be covered unless it is transported in dry weather without precipitations or other contact with water.

1. During transportation construction parts should be stacked and separated with battens made of softwood or rubber between them. It is important that they don't lean on each other.
2. In order to prevent mechanical damages of coating make sure to avoid impacts between construction parts and vehicle during loading – handle with care.

2.2. Storage

Coated elements should be stored in places on the construction site previously covered with PVC foil and wooden pads. Construction parts should be stacked separately in the same way as during transportation (section 2.1.). If they are placed outdoors they must be protected from precipitations by covering with PVC foil.

2.3. Precipitations

Precipitations that could damage coated constructions are rain, snow, fog and high air humidity. Hail and ice can cause mechanical damages. Here are some important guidelines that need to be followed during mounting of the construction on the construction site (outdoors):

1. Construction cannot be mounted unless coating is completely dry.
2. During assembling, construction can get exposed to light precipitations for short period of time, but mustn't be exposed to intensive precipitations for longer period in order to avoid possible damages (exposure to rainfall few hours per day longer than three days).
3. If there is a possibility of precipitations, assembling should be followed by covering of constructions. If that is not the case and there is a possibility of long lasting precipitations, it is necessary to cover potentially exposed parts of mounted constructions with PVC foil.

4. After finishing assembling and covering, it is necessary to inspect the structure and discover potential damages of coating. If they exist, they must be repaired according to section 12.1. of TD-018 Application manual.

III Repairs and Damage Removal

Damages that may occur on surfaces coated with FIRESTOP Steel X-MART 111 intumescent coating:

1. Mechanical damages occurred during loading, transportation, assembling and similar operations on construction site.
2. Damages caused by inadequate application conditions despite producer's instructions (inadequate temperature, coating thickness greater than suggested, air humidity higher than 90% etc.).
3. Damages caused by exposure to atmospheric conditions: rain, snow, hail...

3.1. Damaged caused by mechanical impact

Smaller damages: First inspect elements and estimate damages to the FIRESTOP Steel X-MART 111 coating.

Afterwards clean potential dirt and scrape off coating from damaged parts with a trowel and sanding material.

Apply FIRESTOP filler with trowel in thicker first layer, and after drying apply second thinner layer.

In case of damages of anticorrosion primer, it must be sanded, repaired and dried before applying of fireproof coating (as previously stated).

Greater damages: First inspect elements and estimate damages to the FIRESTOP Steel X-MART 111 coating.

In case of damages to base anticorrosion primer, repair the primer by applying new layer.

In case of damages of FIRESTOP Steel X-MART 111 coating caused by precipitations, always remove all damaged layers with poor adhesion to the surface or prior layer of coating. Removal of coating should be done with sanding material, trowel or by sandblasting.

New layers of FIRESTOP Steel X-MART 111 should be applied on clean and dry surface. Application is done by brush, roller or spraying. First layer should be very thin (100-200 µm DFT). This thin layer will indicate potential residual coatings underneath that were not removed mechanically and which have poor adhesion to surface. They need to be removed by trowel. After drying of first layer of FIRESTOP Steel X-MART 111 coating, further application is done according to instructions in the same way as ordinary application (recommended WFT and DFT for specified element).

After reparation make sure to act according to instructions listed in Technical documentation in order to prevent new damages.

IV Conclusion

4.1. 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 our every 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.

4.2. Trademark

FIRESTOP STEEL X-MART 111 is a trademark of our company legally protected in Serbian Intellectual Property Office. It is within a proprietary programme: 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.

V Date of Issue of this TD

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VI Signature



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