

Technical Information

Repair of SteelMaster 60WB with 600WF

The following document relates to the repair of BS 476 projects protected with SteelMaster 60WB waterborne intumescent coating. This product is no longer being manufactured, therefore SteelMaster 600WF shall be used for repairs. In accordance with guidelines provided by the Association for Specialist Fire Protection (ASFP), the same category of protection system (a reactive coating) should be used. SteelMaster 60SB, other SteelMaster variants or third party products are not acceptable as repairs for SteelMaster 60WB.

This document is relevant to the following SteelMaster products:

SteelMaster [60WB] / [600WF]

Jotun reserve the right to update and modify this document as and when required.

Patch Repair

A patch repair is considered as an area $<0.5\text{m}^2$. Apply SteelMaster 600WF, building up to same dry film thickness of existing SteelMaster 60WB.

- Remove damaged intumescent coating until sound intact protection remains.
- For damaged and corroded areas, if spot blasting to Sa2½ (ISO 8501-1) is restricted, power tool cleaning to min St3 and application of approved primer system.
- Undamaged intact primer to be lightly abraded with sandpaper.
- Feather all rough edges.
- Ensure the surface is free from contamination, sound and dry before applying coatings.
- Apply SteelMaster 600WF, building up to same dry film thickness of existing SteelMaster 60WB. No application of intumescent on to topcoat, resulting in a sandwich system.
- Application of approved topcoat onto repair, with minimum overlap onto existing topcoat.
- Surface preparation, application and drying to be in line with specific product Technical Data Sheets (TDS) and Application Guides (AG).

Repair / Part removal and replacement

Areas $>0.5\text{m}^2$ to be considered as repair / part removal and replacement with same category of fire protection. Intumescent dry film thickness loadings in accordance with SteelMaster 600WF certification for the steel element. Example is the lower section (1m) of a 3m column requires repair.

If area of repair is $>50\%$ of an individual steel element, full removal and repair should be considered for the steel element.

- Remove damaged coatings until sound intact protection remains.
- For damaged and corroded areas, if spot blasting to Sa2½ (ISO 8501-1) is restricted, power tool cleaning to min St3 and application of approved primer system.
- Undamaged intact primer to be lightly abraded with sandpaper.
- Feather all rough edges.
- Ensure the surface is free from contamination, sound and dry before applying coatings.
- Intumescent dry film thickness loadings in accordance with SteelMaster 600WF certification for the steel element. No application of intumescent on to topcoat, resulting in a sandwich system.
- Application of approved topcoat onto repair, with minimum overlap onto existing topcoat.
- Surface preparation, application and drying to be in line with specific product Technical Data Sheets (TDS) and Application Guides (AG).

References:

- SteelMaster TDS and AG.
- ASFP Technical Guidance Document 8 – Junctions between different fire protection systems
- ASFP Technical Guidance Document 10 – Refurbishment & upgrading of fire protection.

Important Information

The information in this guideline is not intended to be exhaustive; any person using the product for any purpose other than that specifically recommended in this guideline without first obtaining written confirmation from Jotun as to the suitability of the product for the intended purpose does so at their own risk. All advice given or statements made about the product (whether in this guideline or otherwise) is correct to the best of our knowledge. However, we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless specifically agreed in writing to do so, Jotun does not accept any liability at all for the performance of the product or for (subject to the maximum extent permitted by law) any loss or damage, direct or indirect, arising out of the use of the product. We hereby disclaim any warranties or representations, expressed or implied, by operation of law or otherwise, including without limitation, any implied warranty of merchantability or fitness for a particular purpose. All products supplied and technical information given is subject to our Conditions of Sale, which can be provided to you by your local Jotun supplier. The information contained in this guideline is liable to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to check with their local Jotun representative that this guideline is current prior to using the product.

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Document identification : TSS-TI-115	Revision: 01 25/07/2019	Doc. Owner TSS PFP	Prepared by: E Haugland Approved by: R Mann	Page 2 of 2
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