

Technical Data

Steelmaster 60WB



Product description

Steelmaster 60WB is specially formulated water based, full EPA VOC compliant and advanced technology thin film intumescent coating.

Recommended use

The product is designed to be used as the reactive midcoat in a full passive fire protection system. This product is designed to cover fire protection periods up to 90 minutes.

Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (μm)	205	700	500
Film thickness, wet (μm)	285	970	695
Theoretical spreading rate (m^2/l)	3,5	1	1,4

Comments

The nominal DFT mentioned above are for application purposes only. All steel sections must be coated with correct loading/film thickness to achieve the specified fire rating. Please refer to the current loading tables or contact your local Jotun office for more information.

Note: The maximum and typical film thickness are only achievable by Airless Spray.

Approvals

BS 476 part 20/21.

Physical properties

Colour	White, Grey
Solids (vol %)*	72 ± 2
Flash point	63°C ± 2 (Setaflash)
VOC	20 gms/ltr UK-PG6/23(97). Appendix 3
Water resistance	Limited
Abrasion resistance	Good
Chemical resistance	Limited
Flexibility	Limited

*Measured according to ISO 3233:1998 (E)

Surface preparation

All surfaces should be clean, dry and free from contamination. The surface should be assessed and treated in accordance with ISO 8504.

Coated surfaces

Clean, dry and undamaged compatible primer. Please contact your local Jotun office for more information.

Other surfaces

The coating may be used on other substrates. Please contact your local Jotun office for more information.

Condition during application

The temperature of the substrate should be minimum 5°C and at least 3°C above the dew point of the air, temperature and relative humidity measured in the vicinity of the substrate. Good ventilation is required in confined areas to ensure correct drying.

Application methods

Spray	Use airless spray.
Brush	Recommended for stripe coating and small areas, care must be taken to achieve the specified dry film thickness.

Application data

Mixing ratio (volume)	Single pack
Mixing	Electrical homogenous mixer.
Cleaner	Do not thin/ready for use. Clean equipment with fresh water.

Guiding data airless spray

Pressure at nozzle	Minimum 20 MPa (200 kp/cm ² , 2800 psi).
Nozzle tip	0.43-0.53 mm (0.017-0.021").
Spray angle	40-100°
Filter	30 mesh internal filters recommended. Check to ensure that filters are clean.

Note The Inside hose diameter of the spray line is required to be 10 mm (except the whip end at 8 mm) and the maximum recommended length of spray line is 60 metres.

Drying time

Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly. The figures given in the table are typical with:

- * Good ventilation (Outdoor exposure or free circulation of air)
- * Typical film thickness
- * One coat on top of inert substrate
- * Around 50% RH
- * Recoating times with itself

Substrate temperature	5°C	10°C	23°C	40°C
Surface dry	8 h	4 h	2 h	1 h
Through dry	48 h	24 h	12 h	8 h
Dry to recoat, minimum	16 h	8 h	6 h	3 h
Dry to recoat, maximum ¹	3 d	2 d	1 d	12 h

1. The surface must be free from any chalking or any other contamination and if necessary, sufficiently roughened prior to application.
2. Early exposure to condensation (high humidity, low temperature) may cause colour and/or gloss variations.

The given data must be considered as guidelines only. The actual drying time/times before recoating may be shorter or longer, depending on film thickness, ventilation, humidity, underlying paint system, requirement for early handling and mechanical strength etc. A complete system can be described on a system sheet, where all parameters and special conditions could be included.

Typical paint system

Penguard Express ZP	1 x 75 µm	(Dry Film Thickness)
Steelmaster 60WB	1 x 500 µm	(Dry Film Thickness)
WaterFine Topcoat	1 x 50 µm	(Dry Film Thickness)

Primers and Topsealers must be compatible with Steelmaster 60WB to ensure fire performance. Contact your local Jotun office for a list of approved Jotun primers and topsealers.

Other systems may be specified, depending on area of use

Storage

The product must be stored between the storage temperature of 5°C and 35°C, and in accordance with national regulations. Storage conditions are to keep the containers in a dry, cool, well ventilated space, and away from direct sunlight, source of heat and ignition. Containers must be kept tightly closed.

Handling

Handle with care. Stir well before use.

Packing size

18.5 litre and 5 litre units.

Health and safety

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not breathe or inhale mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

For detailed information on the health and safety hazards and precautions for use of this product, we refer to the Material Safety Data Sheet.

DISCLAIMER

The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, as the product can be used under conditions beyond our control, we can only guarantee the quality of the product itself. We also reserve the right to change the given data without notice. Minor product variations may be implemented in order to comply with local requirements.

If there is any inconsistency in the text the English (UK) version will prevail.

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