

Technical Data

Steelmaster 60/120



Product description

Steelmaster 60/120 is specially formulated solvent based, fully 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.

Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (μm)	200	1400	700
Film thickness, wet (μm)	280	2000	1000
Theoretical spreading rate (m^2/l)	3,6	0,5	1

Approvals

BS 476 part 20/21
UK Rail track/Network rail approved for Specification RT98

Physical properties

Colour	Grey, White
Solids (vol %)*	71 \pm 3
Flash point	25°C \pm 2 (Setaflash)
VOC	325 gms/ltr UK-PG6/23(97). Appendix 3
Gloss retention	Good
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.

Bare steel

Cleanliness: Blast cleaning to Sa 2½ (ISO 8501-1:2007). Roughness: using abrasives suitable to achieve grade Fine to Medium G (30-85 µm, Ry5) (ISO 8503-2).

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 Do not thin/ready for use.

Cleaner Clean equipment with Jotun thinner No.7

Guiding data airless spray

Pressure at nozzle Minimum 25 MPa (200 kp/cm², 2800 psi).

Nozzle tip 0.48-0.68mm (0.019-0.027").

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 10mm (except the whip end at 8mm) and the maximum recommended length of spray line is 60 Meters

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

Substrate temperature	5°C	10°C	23°C	40°C
Surface dry	2 h	1.5 h	1 h	30 min
Through dry	48 h	36 h	24 h	12 h
Dry to recoat, minimum	24 h	12 h	8 h	4 h
Dry to recoat, maximum ¹	7 d	4 d	2 d	1 d

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 60/120	1 x 700 µm	(Dry Film Thickness)
Pioneer Topcoat	1 x 50 µm	(Dry Film Thickness)

Primers and Topsealers must be compatible with Steelmaster 60/120 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 in accordance with national regulations. Storage conditions are to keep the containers in a dry, cool, well ventilated space and away from source of heat and ignition. Containers must be kept tightly closed.

Handling

Handle with care. Stir well before use.

Packing size

20 litre and 5 litres 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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