

Technical Data

Jotamastic SF



Product description

This is a two component, surface tolerant, abrasion resistant, high solids epoxy mastic coating for various substrates. The product is available with different hardeners for varying substrate temperatures, Standard (Std) and Wintergrade (WG).

Recommended use

For steel where blast cleaning may not be possible and for hydrojetted surfaces. Can be used alone or in combination with various systems of primers and topcoats. Gives excellent edge coverage, and excellent corrosion protection both in salt and fresh water. If exposed to sunlight chalking may occur.

For application in water ballast tanks at newbuilding stage in accordance with PSPC (IMO Res. MSC 82/W), see the "Application procedure for water ballast tanks - Jotamastic SF".

For other areas or special application conditions, please see "Jotamastic SF Application Procedure".

Film thickness and spreading rate

Std Comp. B	Minimum	Maximum	Typical
Film thickness, dry (µm)	150	300	200
Film thickness, wet (µm)	150	300	200
Theoretical spreading rate (m ² /l)	6,7	3,3	5

WG Comp. B	Minimum	Maximum	Typical
Film thickness, dry (µm)	150	300	200
Film thickness, wet (µm)	165	330	220
Theoretical spreading rate (m ² /l)	6,1	3	4,6

Approvals

B1 classification by Det Norske Veritas (DNV) for water ballast tanks.

Physical properties

Colour	Aluminium and aluminium red toned, Grey, Off-white, Red
Solids (vol %)*	99 ± 2 Std Comp. B 91 ± 2 WG Comp. B
Flash point	Std Comp. B 95°C WG Comp. B 56°C
VOC	Std Comp. B 1,5 lbs/gal (180 gms/ltr) USA-EPA Method 24 55 gms/ltr UK-PG6/23(97). Appendix 3 WG Comp. B 1,84 lbs/gal (220 gms/ltr) USA-EPA Method 24 150 gms/ltr UK-PG6/23(97). Appendix 3
Gloss	Glossy
Gloss retention	Fair
Water resistance	Very good
Abrasion resistance	Very good
Flexibility	Good

*Theoretically calculated

Hong Kong rules:

Category of paints - Other vessel coatings; VOC 180 gms/ltr HK EPD method (Ready to use); Exempt compound - N/A; Specific gravity: 1.52 gms/ltr (A+B); Both VOC and Specific gravity values provided are typical values, subject to changes when different colour involved.

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: Power and/or hand tool cleaning to min. St 2, mill scale free (ISO 8501-1:2007). Improved surface treatment (blast cleaning to Sa 2½) will improve the performance.

Shopprimed steel

Clean, dry and undamaged approved shopprimer. Damaged shopprimer and welds to be blast-cleaned to Sa 2½ (ISO 8501-1:2007). The retained shopprimer shall be cleaned by sweep blasting, high-pressure water washing or equivalent method.

Coated surfaces

Clean, dry and undamaged compatible primer. Contact your local Jotun office for more information. For maintenance UHPWJ to WJ2 (NACE No.5/SSPC-SP 12) or Power tool cleaning to min. St 2 for rusted areas

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 usually required in confined areas to ensure proper drying. The coating should not be exposed to oil, chemicals or mechanical stress until cured.

Application methods

Spray	Use airless spray with high pressure ratio (min. 60:1).
Brush	Recommended for stripe coating and small areas, care must be taken to achieve the specified dry film thickness.
Roller	May be used for small areas but not recommended for first primer coat, however when using roller application care must be taken to apply sufficient material in order to achieve the specified dry film thickness.

Application data

Mixing ratio (volume)	Std Comp. B: 3:1 WG Comp. B: 2,2:1
Mixing	3 parts Comp. A (base) to be mixed thoroughly with 1 part Jotamastic SF, Std Comp. B (curing agent). 2,2 parts Comp. A (base) to be mixed thoroughly with 1 part Jotamastic SF, WG Comp. B (curing agent).
Pot life (23°C)	Std Comp. B: 1 h WG Comp. B: 1 h
Thinner/Cleaner	Jotun Thinner No. 17
Guiding data airless spray	
Pressure at nozzle	20 MPa (200 kp/cm ² , 2800 psi).
Nozzle tip	0.019-0.025" (0.48-0.64 mm).
Spray angle	40-80°
Filter	Check to ensure that filters are clean.

Note	* It is of vital importance that the nozzle and other parts of the spraying equipment are cleaned properly directly after the work is done due to the short pot life. If a pail is used under the spray pump and new paint poured into it, this pail must be changed every one hour. * The hoses should be of good quality and not longer than necessary. * The temperature of base and curing agent is recommended to be 18°C or higher when the paint is mixed.
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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

Std Comp. B			
Substrate temperature	15°C	23°C	40°C
Surface dry	15 h	10 h	5 h
Through dry	27 h	16 h	6 h
Cured		14 d	7 d
Dry to recoat, minimum	27 h	16 h	6 h
Dry to recoat, maximum ¹			

WG Comp. B

Substrate temperature	5°C	10°C	15°C
Surface dry	28 h	15 h	10 h
Through dry	53 h	23 h	18 h
Cured			
Dry to recoat, minimum	53 h	23 h	18 h
Dry to recoat, maximum ¹			

1. Provided the surface is free from chalking and other contamination prior to application, there is normally no overcoating time limit. Best intercoat adhesion occurs, however, when the subsequent coat is applied before preceding coat has cured. If the coating has been exposed to direct sunlight for some time, special attention must be paid to surface cleaning and mattening/removal of the surface layer in order to obtain good adhesion.

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

Jotamastic SF 2 x 200 µm (Dry Film Thickness)

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

14.67 litre unit: 11 litres Comp. A (base) in a 20 litre container and 3.67 litres Jotamastic SF, Std Comp. B (curing agent) in a 5 litre container.

16 litre unit: 11 litres Comp. A (base) in a 20 litre container and 5 litres Jotamastic SF, WG Comp. B (curing agent) in a 5 litre container.

or

20 litre unit: 15 litres Comp. A (base) in a 20 litre container and 5 litres Jotamastic SF, Std Comp. B (curing agent) in a 5 litre container (this pack size will be phased out).

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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