

# Technical Data

## Jotamastic SF



### Product description

Jotamastic SF is a two-pack, surface tolerant, abrasion resistant, solvent free polyamine cured epoxy mastic coating for various substrates. This product is a part of a complete system which is certified not to spread flames.

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### 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".

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### Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (µm)	150	300	200
Film thickness, wet (µm)	150	300	200
Theoretical spreading rate (m <sup>2</sup> /l)	6,7	3,3	5

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### Approvals

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

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### Physical properties

<b>Colour</b>	Aluminium, Aluminium red tone, Grey, Off-white, Red
<b>Solids (vol %)*</b>	99 ± 2
<b>Flash point</b>	<b>Colored version:</b> >100°C <b>Aluminium version:</b> 84°C
<b>VOC</b>	<b>Coloured version:</b> 45 gms/ltr UK-PG6/23(97). Appendix 3 <b>Aluminium version:</b> 65 gms/ltr UK-PG6/23(97). Appendix 3
<b>Gloss</b>	Glossy
<b>Gloss retention</b>	Fair
<b>Water resistance</b>	Very good
<b>Abrasion resistance</b>	Very good
<b>Flexibility</b>	Good

\*Theoretically calculated

Please note that during the curing process some shrinkage may occur, which is accounted for in the spreading rates shown above.

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## 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.

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## Condition during application

The temperature of the substrate should be minimum 15°C and at least 3°C above the dew point of the air. The temperature and the relative humidity should be 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 fully cured.

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## Application methods

<b>Spray</b>	Use airless spray with high pressure ratio (min. 60:1).
<b>Brush</b>	Recommended for stripe coating and small areas, care must be taken to achieve the specified dry film thickness.
<b>Roller</b>	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.

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## Application data

<b>Mixing ratio (volume)</b>	3:1
<b>Mixing</b>	3 parts Comp. A (base) to be mixed thoroughly with 1 part Jotamastic SF, Comp. B (curing agent).
<b>Pot life (23°C)</b>	60 min. (Reduced at higher temp.).
<b>Thinner/Cleaner</b>	Jotun Thinner No. 17
<b>Guiding data airless spray</b>	
<b>Pressure at nozzle</b>	20 MPa (200 kp/cm <sup>2</sup> , 2800 psi).
<b>Nozzle tip</b>	0.019-0.025" (0.48-0.64 mm).
<b>Spray angle</b>	40-80°
<b>Filter</b>	Check to ensure that filters are clean.

<b>Note</b>	<ul style="list-style-type: none"><li>* 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.</li><li>* The hoses should be of good quality and not longer than necessary.</li><li>* The temperature of base and curing agent is recommended to be 18°C or higher when the paint is mixed.</li></ul>
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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

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 <sup>1</sup>			

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.

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## Typical paint system

Jotamastic SF                      2 x 200 µm                      (Dry Film Thickness)

Other systems may be specified, depending on area of use

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## 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.

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## Handling

Handle with care. Stir well before use.

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## Packing size

15 litres Comp. A (base) in a 20 litres container and 5 litres Jotamastic SF, Comp. B (curing agent) in a 5 litres container.

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## 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.**

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### 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 is often used under conditions beyond our control, we cannot guarantee anything but the quality of the product itself. We reserve the right to change the given data without notice.*

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