

# Technical Data Sheet



## Jotamastic 80

### Product description

This is a two component polyamine cured epoxy mastic coating. It is a surface tolerant, high solids product. Specially designed for areas where optimum surface preparation is not possible or desired. Can be used as primer, mid coat, finish coat or as single coat system in atmospheric environments. Suitable for properly prepared carbon steel and aged coating surfaces. It can be applied at sub zero surface temperatures.

### Typical use

#### General:

Primarily designed for maintenance and repair. In immersed environments Jotamastic 80 Aluminium is suitable.

#### Marine:

Outside hulls, exterior and interior areas.

#### Protective:

Recommended for offshore environments, refineries, power plants, bridges, buildings, mining equipment and general structural steel.

### Approvals and certificates

Food, Compliant with USA, FDA Title 21, Part 175.300 for dry solids  
Grain, Newcastle Occupational Health

When used as part of an approved scheme, this material has the following certification:

- Low Flame Spread in accordance with EU Directive for Marine Equipment. Approved in accordance with parts 5 and 2 of Annex 1 of IMO 2010 FTP Code, or Parts 5 and 2 of Annex 1 of IMO FTPC when in compliance with IMO 2010 FTP Code Ch. 8

Consult your Jotun representative for details.

Additional certificates and approvals may be available on request.

### Other variants available

Jotamastic 80 MIO

Jotamastic 80 Aluminium

Refer to separate TDS for each variant.

### Colours

grey, red, green, off-white, black

## Product data

Property	Test/Standard	Description
<b>STANDARD GRADE</b>		
Solids by volume	ISO 3233	80 ± 2 %
Gloss level (GU 60 °)	ISO 2813	semi gloss (35-70)
Flash point	ISO 3679 Method 1	35 °C
Density	calculated	1.5 kg/l

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VOC-US/Hong Kong	US EPA method 24 (tested) (CARB(SCM)2007, SCAQMD rule 1113, Hong Kong)	275 g/l
VOC-EU	IED (2010/75/EU) (theoretical)	249 g/l
VOC-China	GB/T 23985-2009 (ISO 11890-1) (tested)	178 g/l
VOC-Korea	Korea Clean Air Conservation Act (tested)	290 g/l

### WINTER GRADE

Solids by volume	ISO 3233	72 ± 2 %
Flash point	ISO 3679 Method 1	31 °C
Density	calculated	1.5 kg/l
VOC-US/Hong Kong	US EPA method 24 (tested) (CARB(SCM)2007, SCAQMD rule 1113, Hong Kong)	300 g/l
VOC-EU	IED (2010/75/EU) (theoretical)	278 g/l
VOC-China	GB/T 23985-2009 (ISO 11890-1) (tested)	204 g/l
VOC-Korea	Korea Clean Air Conservation Act (tested)	331 g/l

The provided data is typical for factory produced products, subject to slight variation depending on colour.  
All data is valid for mixed paint.

Gloss description: According to Jotun Performance Coatings' definition.

## Film thickness per coat

### Typical recommended specification range

#### STANDARD GRADE

Dry film thickness	75 - 200 µm
Wet film thickness	95 - 250 µm
Theoretical spreading rate	10.7 - 4 m <sup>2</sup> /l

#### WINTER GRADE

Dry film thickness	75 - 200 µm
Wet film thickness	105 - 280 µm
Theoretical spreading rate	9.6 - 3.6 m <sup>2</sup> /l

## Surface preparation

To secure lasting adhesion to the subsequent product all surfaces shall be clean, dry and free from any contamination.

### Surface preparation summary table

Substrate	Surface preparation	
	Minimum	Recommended
Carbon steel	St 2 (ISO 8501-1)	Sa 2 (ISO 8501-1)
Shop primed steel	Clean, dry and undamaged shop primer (ISO 12944-4 6.1)	Sa 2 (ISO 8501-1)
Coated surfaces	Clean, dry and undamaged compatible coating (ISO 12944-4 6.1.4)	Clean, dry and undamaged compatible coating (ISO 12944-4 6.1.4)

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Optimum performance, including adhesion, corrosion protection, heat resistance and chemical resistance is achieved with recommended surface preparation.

## Application

### Application methods

The product can be applied by

Spray:	Use airless spray.
Brush:	May be used. Care must be taken to achieve the specified dry film thickness.
Roller:	May be used. Care must be taken to achieve the specified dry film thickness.

### Product mixing ratio (by volume)

#### STANDARD GRADE

Jotamastic 80 Comp A	7 part(s)
Jotamastic 80 STD Comp B	1 part(s)

#### WINTER GRADE

Jotamastic 80 Comp A	4 part(s)
Jotamastic 80 Wintergrade Comp B	1 part(s)

### Thinner/Cleaning solvent

Thinner:	Jotun Thinner No. 17
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### Guiding data for airless spray

Nozzle tip (inch/1000):	19-25
Pressure at nozzle (minimum):	150 bar/2100 psi

## Drying and Curing time

Substrate temperature	-5 °C	0 °C	5 °C	10 °C	23 °C	40 °C
<b>STANDARD GRADE</b>						
Surface (touch) dry				8 h	4 h	2 h
Walk-on-dry				24 h	10 h	4 h
Dry to over coat, minimum				24 h	10 h	4 h
Dried/cured for service				14 d	7 d	2 d
<b>WINTER GRADE</b>						
Surface (touch) dry	24 h	18 h	12 h	6 h	2.5 h	
Walk-on-dry	48 h	26 h	18 h	12 h	5 h	
Dry to over coat, minimum	48 h	26 h	18 h	12 h	5 h	



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### Packaging (typical)

	<b>Volume (litres)</b>	<b>Size of containers (litres)</b>
Jotamastic 80 Comp A	16	20
Jotamastic 80 STD Comp B	2.3	3
Jotamastic 80 Wintergrade Comp B	4	5

The volume stated is for factory made colours. Note that local variants in pack size and filled volumes can vary due to local regulations.

### Storage

The product must be stored in accordance with national regulations. Keep the containers in a dry, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

### Shelf life at 23 °C

Jotamastic 80 Comp A	48 month(s)
Jotamastic 80 STD Comp B	48 month(s)
Jotamastic 80 Wintergrade Comp B	36 month(s)

In some markets commercial shelf life can be dictated shorter by local legislation. The above is minimum shelf life, thereafter the paint quality is subject to re-inspection.

### Caution

This product is for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to Jotun's technical documentation. Applicators and operators shall use appropriate personal protection equipment when using this product. This guideline is given based on the current knowledge of the product. Any suggested deviation to suit the site conditions shall be forwarded to the responsible Jotun representative for approval before commencing the work.

### Health and safety

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not inhale spray 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.

### Colour variation

When applicable, products primarily meant for use as primers or antifoulings may have slight colour variations from batch to batch. Such products may fade and chalk when exposed to sunlight and weathering.

### Disclaimer

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The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.

Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.

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