

Jotamastic 87 MIO50

Product description

This is a two component polyamine cured epoxy mastic coating. It is a surface tolerant, micaceous iron oxide (MIO) pigmented, high solids, high build product. High MIO content. Specially designed for areas where optimum surface preparation is not possible or desired. Provides long lasting protection in environments with high corrosivity. Can be used as primer, mid coat, finish coat or as single coat system in atmospheric and immersed 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.

Protective:

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

Colours

grey

Product data

Property	Test/Standard	Description
STANDARD GRADE		
Solids by volume	ISO 3233	82 ± 2 %
Gloss level (GU 60 °)	ISO 2813	semi gloss (35-70)
Flash point	ISO 3679 Method 1	35 °C
Density	calculated	1,6 kg/l
VOC-US/Hong Kong	US EPA method 24 (tested)	216 g/l
VOC-EU	IED (2010/75/EU) (calculated)	262 g/l
VOC-China	GB/T 23985-2009 (ISO 11890-1) (tested)	214 g/l
WINTER GRADE		
Solids by volume	ISO 3233	74 ± 2 %
Flash point	ISO 3679 Method 1	31 °C
VOC-US/Hong Kong	US EPA method 24 (tested)	210 g/l
VOC-EU	IED (2010/75/EU) (calculated)	293 g/l
VOC-China	GB/T 23985-2009 (ISO 11890-1) (tested)	245 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.

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Film thickness per coat

Typical recommended specification range STANDARD GRADE

Dry film thickness 150 - 300 μm Wet film thickness 180 - 365 μm Theoretical spreading rate 5,5 - 2,7 m^2/l

WINTER GRADE

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

	Surface preparation		
Substrate	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)	Clean, dry and undamaged compatible coating (ISO 12944-4 6.1)	

Application

Application methods

The product can be applied by

Spray: Use airless spray.

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. Not recommended for first primer coat. Care must be taken

to achieve the specified dry film thickness.

Product mixing ratio (by volume)

STANDARD GRADE

Jotamastic 87 MIO50 Comp A 6 part(s)
Jotamastic 87 Standard Comp B 1 part(s)

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WINTER GRADE

Jotamastic 87 MIO50 Comp A 4 part(s)
Jotamastic 87 Wintergrade Comp B 1 part(s)

Thinner/Cleaning solvent

Thinner: Jotun Thinner No. 17

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	
STANDARD GRADE							
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				7 d	7 d	2 d	
WINTER GRADE							
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		
Dried/cured for service	21 d	14 d	7 d	3 d	2 h		

Drying and curing times are determined under controlled temperatures and relative humidity below $85\,\%$, and at average of the DFT range for the product.

Surface (touch) dry: The state of drying when slight pressure with a finger does not leave an imprint or reveal tackiness.

Walk-on-dry: Minimum time before the coating can tolerate normal foot traffic without permanent marks, imprints or other physical damage.

Dry to over coat, minimum: The shortest time allowed before the next coat can be applied.

Dried/cured for service: Minimum time before the coating can be permanently exposed to the intended environment/medium.

Induction time and Pot life

Paint temperature	23 °C
STANDARD GRADE	
Induction time	10 min
Pot life	2 h
WINTER GRADE	

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This Technical Data Sheet supersedes those previously issued.



Pot life 1 h

Heat resistance

Temperature

	Continuous	Peak
Dry, atmospheric	90 °C	90 °C
Immersed, sea water	50 °C	60 °C

Peak temperature duration max. 1 hour.

The temperatures listed relate to retention of protective properties. Aesthetic properties may suffer at these temperatures.

Note that the coating will be resistant to various immersion temperatures depending on the specific chemical and whether immersion is constant or intermittent. Heat resistance is influenced by the total coating system. If used as part of a system, ensure all coatings in the system have similar heat resistance.

Product compatibility

Depending on the actual exposure of the coating system, various primers and topcoats can be used in combination with this product. Some examples are shown below. Contact Jotun for specific system recommendation.

Previous coat: epoxy shop primer, inorganic zinc silicate shop primer, zinc epoxy, epoxy, epoxy

mastic, inorganic zinc silicate

Subsequent coat: polyurethane, epoxy, acrylic, vinyl epoxy

Packaging (typical)

	Volume (litres)	Size of containers (litres)
Jotamastic 87 MIO50 Comp A	16	20
Jotamastic 87 Standard Comp B	2.7	3
Jotamastic 87 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 87 MIO50 Comp A	48 month(s)
Jotamastic 87 Standard Comp B	48 month(s)
Jotamastic 87 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.

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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

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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