

## Marathon IQ2

### Product description

This is a two component polyamine cured epoxy coating. It is a high build, solvent free product. It provides superior resistance against impacts and abrasion. It has excellent ice friction performance and ice slip properties. Can be used as primer, finish coat or as single coat system in atmospheric and immersed environments. Suitable for properly prepared carbon steel substrates.

### Typical use

Marine:

Recommended for under water hull in newbuilding and drydocking. Designed as a premium solution where abrasion resistance, impact resistance and ice slip properties are required. Suitable as anode shield around ICCP anodes.

### Approvals and certificates

Recognized by Lloyd's Register as an abrasion resistant coating for ice going vessels  
Approved as ice-resistant coating in accordance with RMRS Class Program for Classification and Construction of Sea-Going Ships, section 2.5, Part XIII, edition 2017.

Additional certificates and approvals may be available on request.

### Colours

selected range of colours

### Product data

Property	Test/Standard	Description
Solids by volume	ISO 3233	98 ± 2 %
Gloss level (GU 60 °)	ISO 2813	gloss (70-85)
Flash point	ISO 3679 Method 1	90 °C
Density	calculated	1.5 kg/l
VOC-US/Hong Kong	US EPA method 24 (tested) (CARB(SCM)2007, SCAQMD rule 1113, Hong Kong)	48 g/l
VOC-EU	IED (2010/75/EU) (theoretical)	42 g/l
VOC-China	GB/T 23985-2009 (tested)	27 g/l
VOC-Korea	Korea Clean Air Conservation Act (tested)	53 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

Dry film thickness	350 - 550	µm
Wet film thickness	350 - 550	µm
Theoretical spreading rate	2.9 - 1.8	m <sup>2</sup> /l

For use as anode shield: Minimum 2 x 500 µm dft

For ice resistance, film thickness 500 µm applied as one coat and with no thinning is recommended.

## 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	Sa 2½ (ISO 8501-1)	Sa 2½ (ISO 8501-1)
Coated surfaces	Clean, dry and undamaged compatible coating	Clean, dry and undamaged compatible coating

## Application

### Application methods

The product can be applied by

Spray:	Use airless spray, or two component heated airless spray equipment.
Brush:	Recommended for stripe coating and small areas. Care must be taken to achieve the specified dry film thickness.

### Product mixing ratio (by volume)

Marathon IQ2 Comp A	3 part(s)
Marathon IQ2 Comp B	1 part(s)

### Thinner/Cleaning solvent

Thinning is not recommended, but if needed max. 3 %.

Sag resistance will decrease with added thinner.

Cleaning solvent: Jotun Thinner No. 17

### Guiding data for airless spray

Nozzle tip (inch/1000): 19-23

Pressure at nozzle (minimum): 200 bar/2900 psi

Minimum pump capacity: min. 2.2 l/min

### Drying and Curing time

Substrate temperature	0 °C	5 °C	10 °C	15 °C	23 °C	40 °C
Surface (touch) dry		17 h	13 h	7 h	4 h	2 h
Walk-on-dry		24 h	18 h	14 h	9 h	3 h
Dry to over coat, minimum		24 h	18 h	14 h	9 h	3 h
Dried/cured for immersion		4 d	4 d	4 d	2 d	2 d
Dried/cured for service	42 d *	14 d	10 d	10 d	7 d	3 d

For maximum overcoating intervals, refer to the Application Guide (AG) for this product.

\* Vessels destined for trade in icy waters must be allowed curing for 42 days if the substrate temperature is between 0 °C and 5 °C.

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 recommended shortest time before the next coat can be applied.

Dried/cured for immersion: Minimum time before the coating can be permanently immersed in sea water.

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
Pot life	45 min

Reduced at higher temperatures, and with increased mixing volumes.

## Heat resistance

	Temperature	
	Continuous	Peak
Dry, atmospheric	120 °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.

Subsequent coat: vinyl epoxy, epoxy, polyurethane

## Packaging (typical)

	Volume (litres)	Size of containers (litres)
Marathon IQ2 Comp A	13.5	20
Marathon IQ2 Comp B	4.5	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

Marathon IQ2 Comp A	12 month(s)
Marathon IQ2 Comp B	24 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.

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## 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.

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## 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.

Colour and gloss retention on topcoats/finish coats may vary depending on type of colour, exposure environment such as temperature, UV intensity etc., and application quality. Contact your local Jotun office for further information.

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## 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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