# Technical Data Sheet

# Jotamastic 85

## Product description

A multi-purpose, robust and efficient, surface tolerant primer that can be used on multiple application areas in different temperatures with short recoating intervals. A two-component epoxy mastic coating, building on more than 35 years of anti-corrosion protection experience. It is a high solids product. Can be used as primer in atmospheric and immersed environments. Suitable for properly prepared carbon steel, galvanised steel, stainless steel, aluminium, concrete and a range of aged coating surfaces. It can be applied at subzero surface temperature.

### Typical use

General:
Primarily designed for maintenance and repair.

Marine:
Exterior and interior areas, including outside hulls, superstructures and decks.

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

### Approvals and certificates

Certified in accordance with IMO Res.215(82) – PSPC Water Ballast Tanks

Grain Cargo Contamination testing, Newcastle Occupational Health

Approved for use according to ANSI/AWWA C210/15 - Liquid-Epoxy Coatings and linings for Steel Water pipes and fittings - for areas where the coating is not in contact with potable water.

Certified in accordance with IMO 2010 FTP code – Low Flame Spread

Additional certificates and approvals may be available on request.

### Colours

aluminium, aluminium red toned, grey, red, off-white, black

## Product data

| Property | Test/Standard | Description |
|---|---|---|
| Solids by volume | ISO 3233 | 72 ± 2 % |
| Gloss level (GU 60 °) | ISO 2813 | matt (0-35) |
| Flash point | ISO 3679 Method 1 | 31 °C |
| Density | calculated | 1.4 kg/l |

| Region | Regulation | Test Standard | VOC Value |
|---|---|---|---|
| US | CARB(SCM)2020 / SCAQMD rule 1113 | US EPA Method 24 | 247 g/l |
| Hong Kong | Air Pollution Control (VOC) Regulation | US EPA Method 24 | 247 g/l |



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| | | | |
|---|---|---|---|
| EU | European Paint Directive 2004/42/CE | Calculated | 260 g/l |
| EU IED | Industrial Emission Directive 2010/75/EU | Calculated | 260 g/l |
| Korea | Korea Clean Air Conservation Act | KS M ISO 11890-1 | 236 g/l |
| China | Mandatory national standard of China | GB 30981.2-2025 | 216 g/l |

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

Gloss description: According to Jotun Performance Coatings' definition.

# Film thickness per coat

**Typical recommended specification range**

| | | | | |
|---|---|---|---|---|
| Dry film thickness | 100 | - | 250 | µm |
| Wet film thickness | 140 | - | 345 | µm |
| Theoretical spreading rate | 7.2 | - | 2.9 | m²/l |

# Surface preparation

## Surface preparation summary table

| Substrate | Surface preparation | |
|---|---|---|
| | Minimum | Recommended |
| Carbon steel | St 2 (ISO 8501-1) | Sa 2 (ISO 8501-1) |
| Stainless steel | The surface shall be hand or machine abraded with non-metallic abrasives or bonded fibre machine or hand abrasive pads to impart a scratch pattern to the surface. | Abrasive blast cleaning to achieve a surface profile using non-metallic abrasive media which is suitable to achieve a sharp and angular surface profile. |
| Aluminium | The surface shall be hand or machine abraded with non-metallic abrasives or bonded fibre machine or hand abrasive pads to impart a scratch pattern to the surface. | Abrasive blast cleaning to achieve a surface profile using non-metallic abrasive media which is suitable to achieve a sharp and angular surface profile. |
| Galvanised steel | The surface shall be clean, dry and appear with a rough and dull profile. | Sweep blast-cleaning using non-metallic abrasive leaving a clean, rough and even pattern. |
| Shop primed steel | Clean, dry and undamaged shop primer (ISO 12944-4 5.4) | Sa 2 (ISO 8501-1) |
| Coated surfaces | Clean, dry and undamaged compatible coating | Clean, dry and undamaged compatible coating |
| | | |



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| | | |
|---|---|---|
| Concrete | Low pressure water washing to a rough, clean, dry and laitance free surface. | Minimum 4 weeks curing. Moisture content maximum 5 %. Prepare the surface by means of enclosed blast shot or diamond grinding and other appropriate means to abrade the surrounding concrete and to remove laitance. |

# 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 but is 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. |

## Product mixing ratio (by volume)

| | |
|---|---|
| Jotamastic 85 Comp A | 4 part(s) |
| Jotamastic 85 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 |
|---|---|---|---|---|---|---|
| Surface (touch) dry | 20 h | 14 h | 6 h | 5 h | 3 h | 1 h |
| Walk-on-dry | 48 h | 30 h | 16 h | 10 h | 5 h | 2 h |
| Dry to over coat, minimum | 36 h | 24 h | 12 h | 8 h | 4 h | 2 h |
| Dried/cured for service | 28 d | 21 d | 14 d | 10 d | 7 d | 3 d |

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

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



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

## Induction time and Pot life

| Paint temperature | 23 °C |
|---|---|
| Induction time | 10 min |
| Pot life | 1.5 h |

## Heat resistance

| | Temperature | |
|---|---|---|
| | Continuous | Peak |
| Dry, atmospheric | 120 °C | 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.

| | |
|---|---|
| Previous coat: | inorganic zinc shop primer, epoxy, epoxy mastic, inorganic zinc silicate |
| Subsequent coat: | epoxy mastic, epoxy, polyurethane, acrylic, alkyd, vinyl epoxy |

## Packaging (typical)

| | Volume (litres) | Size of containers (litres) |
|---|---|---|
| Jotamastic 85 Comp A | 16 | 20 |
| Jotamastic 85 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.



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# Storage

The product must be stored in accordance with national regulations. Keep the containers in a dry, shaded, 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 85 Comp A | 24 month(s) |
| Jotamastic 85 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.

# Environmental Documentation

This product can contribute to Green Building Standard credits. Please refer to Jotun.com for more information or contact your local Jotun representative.

Environmental Product Declaration (EPD) is available at www.epd-norge.no

# Caution

This product is for professional use only. The applicator and operator 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 should 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 in 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 sought medical attention 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 and epoxy-based products used as a finish coat may 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., application quality and generic type of paint. Contact your local Jotun office for further information.

# 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 data given 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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