

## Megacote

### Product description

This is a two component amine cured pure epoxy coating. It is a surface tolerant, abrasion resistant, high solids, high build product. It is fast drying. Designed as a universal, all round, all year anticorrosive coating. Can be used as primer in atmospheric and immersed environments. Suitable for properly prepared carbon steel, galvanized steel, shop primed steel, stainless steel, aluminum, composite and wood substrates. It can be applied at sub zero surface temperatures.

### Typical use

Exterior and interior areas, including hulls, above and below waterline, superstructures, decks and water ballast tanks. Suitable for osmosis prevention on composite hulls.

### Approvals and certificates

Approved for PSPC for Water Ballast Tanks according to IMO Res. MSC 215(82)

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.

### Colors

aluminum red toned, off-white, grey

### Product data

| Property              | Test/Standard   | Description        |
|-----------------------|---|--------------------|
| Solids by volume      | ISO 3233  | 72 ± 2 %           |
| Gloss level (GU 60 °) | ISO 2813  | semi gloss (35-70) |
| Flash point           | ISO 3679 Method 1   | 95 °F (35 °C)      |
| Density               | calculated  | 1.3 kg/l           |
| VOC-US/Hong Kong      | US EPA method 24 (tested)<br>(CARB(SCM)2007, SCAQMD rule 1113, Hong Kong) | 2.17 lbs/gal       |

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

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         | 3 mils (75 µm)                                   | - 12 mils (300 µm)                                 |
| Wet film thickness         | 4 mils (105 µm)                                  | - 16 mils (415 µm)                                 |
| Theoretical spreading rate | 390 ft <sup>2</sup> /gal (9.6 m <sup>2</sup> /l) | - 100 ft <sup>2</sup> /gal (2.4 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) or SSPC SP-2  | Sa 2½ (ISO 8501-1) or NACE No. 2 / SSPC SP-10   |
| Stainless steel   | The surface shall be machine abraded with non-metallic abrasives or bonded fibre machine to impart a scratch pattern of min. 45 µm to the surface and to remove all polish from 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.  |
| Aluminum          | 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 and to remove all polish from 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.  |
| Galvanized steel  | The surface shall be clean, dry and appear with a rough and dull profile.   | The surface shall be clean, dry and appear with a rough and dull profile.   |
| Shop primed steel | Sa 2 (ISO 8501-1) / SP 6 / NACE No. 3 (SSPC-VIS 1)  | Sa 2 (ISO 8501-1) / SP 6 / NACE No. 3 (SSPC-VIS 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)   |
| Composite         | Polyester based composites must be fully cured before initiating the surface preparation.<br>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 and to remove all polish from the surface. | Polyester based composites must be fully cured before initiating the surface preparation.<br>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 and to remove all polish from the surface. |
| Wood              | Clean and dry surface. Surface contamination is to be removed by detergents and fresh water cleaning.   | Clean and dry surface. Surface contamination is to be removed by detergents and fresh water cleaning.   |

## Application

### Application methods

The product can be applied by

- Spray: Use air spray or airless spray. Care must be taken to achieve the specified dry film thickness.
- 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)

|                 |           |
|-----------------|-----------|
| Megacote Comp A | 3 part(s) |
| Megacote Comp B | 1 part(s) |

### Thinner/Cleaning solvent

Thinner: Jotun Thinner No. 17

### Guiding data for airless spray

|                               |                  |
|-------------------------------|------------------|
| Nozzle tip (inch/1000):       | 17-23            |
| Pressure at nozzle (minimum): | 150 bar/2100 psi |

### Guiding data for air spray

|                               |                    |
|-------------------------------|--------------------|
| Nozzle tip:                   | HVLP: 1.8-2.0 (mm) |
| Pressure at nozzle (minimum): | 3.5 bar/50 psi     |

## Drying and Curing time

Temperatures:  
-10°C = 14°F / -5°C = 23°F / 0°C = 32°F / 5°C = 41°F / 10°C = 50°F / 15°C = 59°F / 23°C = 73°F / 35°C = 95°F / 40°C = 104°F / 100°C = 212°F

| Substrate temperature       | -5 °C | 0 °C | 5 °C | 10 °C | 23 °C | 40 °C |
|-----------------------------|-------|------|------|-------|-------|-------|
| Surface (touch) dry         | 20 h  | 14 h | 8 h  | 5 h   | 2.5 h | 1 h   |
| Walk-on-dry                 | 48 h  | 30 h | 16 h | 10 h  | 5 h   | 2 h   |
| Dried to over coat, minimum | 24 h  | 18 h | 10 h | 7 h   | 4 h   | 2 h   |
| Dried/cured for service     |       | 21 d | 14 d | 10 d  | 7 d   | 3 d   |

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

## Induction time and Pot life

Temperatures: 15°C = 59°F / 23°C = 73°F

|                          |              |
|--------------------------|--------------|
| <b>Paint temperature</b> | <b>23 °C</b> |
| Induction time           | 10 min       |
| Pot life                 | 1.5 h        |

## 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.

Previous coat: inorganic zinc silicate shop primer, epoxy, zinc epoxy  
Subsequent coat: polyurethane, polysiloxane, vinyl epoxy, epoxy mastic, polyester polyurethane

## Packaging (typical)

|                 | Volume<br>(liters) | Size of containers<br>(liters) |
|-----------------|--------------------|--------------------------------|
| Megacote Comp A | 3 / 13.5           | 5 / 20                         |
| Megacote Comp B | 1 / 4.5            | 1 / 5                          |

The volume stated is for factory made colors. 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, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

### Shelf life at 73°F (23 °C)

|                 |             |
|-----------------|-------------|
| Megacote Comp A | 48 month(s) |
| Megacote 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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## Color variation

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

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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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