

## 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 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. Only aluminium containing versions to be used in immersed environments.

**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

Additional certificates and approvals may be available on request.

### Other variants available

Jotamastic 80 MIO

Refer to separate TDS for each variant.

### Colours

aluminium, aluminium red toned, 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 (60 °)             | ISO 2813          | semi gloss (35-70) |
| Flash point                    | ISO 3679 Method 1 | 35 °C              |
| Specific gravity               | calculated        | 1,53 kg/l          |
| VOC-USA / VOC Hong Kong        | EPA Method 24     | 200 g/l            |
| VOC-Solvent Emission Directive | SED (1999/13/EC)  | 163 g/kg           |
| <b>WINTER GRADE</b>            |                   |                    |
| Solids by volume               | ISO 3233          | 72 ± 2 %           |
| Flash point                    | ISO 3679 Method 1 | 31 °C              |
| VOC-USA / VOC Hong Kong        | EPA Method 24     | 250 g/l            |

VOC-Solvent Emission Directive

SED (1999/13/EC)

187 g/kg

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

All data is valid for mixed paint.

Gloss level: According to Jotun Performance Coatings' definition.

## Recommended film thickness per coat

| Film thickness and spreading rate | Dry film thickness | Wet film thickness | Theoretical spreading rate (m <sup>2</sup> /l) |
|-----------------------------------|--------------------|--------------------|--|
|                                   | (µm)               | (µm)               |  |
| <b>STANDARD GRADE</b>             |                    |                    |  |
| Minimum                           | 75                 | 95                 | 10,6   |
| Maximum                           | 200                | 250                | 4  |
| Typical                           | 100                | 125                | 8  |
| <b>WINTER GRADE</b>               |                    |                    |  |
| Minimum                           | 75                 | 105                | 9,6  |
| Maximum                           | 200                | 280                | 3,6  |
| Typical                           | 100                | 140                | 7,2  |

## 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) | 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: 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 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

### 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   |  |  |  | 14 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 d   |  |

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

Surface (touch) dry: The state of drying when slight pressure with a finger does not leave an imprint or reveal tackiness. Dry sand sprinkled on the surface can be brushed off without sticking to or causing damage to the surface.

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

Dried 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

|                          |              |
|--------------------------|--------------|
| <b>Paint temperature</b> | <b>23 °C</b> |
| <b>STANDARD GRADE</b>    |              |
| Induction time           | 10 min       |
| Pot life                 | 2 h          |
| <b>WINTER GRADE</b>      |              |
| Pot life                 | 1 h          |

## Heat resistance

|                     | Temperature |        |
|---------------------|-------------|--------|
|                     | Continuous  | Peak   |
| Dry, atmospheric    | 120 °C      | 120 °C |
| Immersed, sea water | 50 °C       | 60 °C  |

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, epoxy vinyl, vinyl epoxy   |

## Packaging (typical)

|                                  | Volume (litres) | Size of containers (litres) |
|----------------------------------|-----------------|-----------------------------|
| Jotamastic 80 Comp A             | 16              | 20                          |
| Jotamastic 80 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 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**

Products primarily meant for use as primers and antifoulings may have slight color 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.