



New Guard Coatings Group

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The information herewith is given with the best of New Guard Coatings Group knowledge.

Rights are reserved to change and update the data without notice.

This information is not exhaustive and it is the user's responsibility to ensure that this data sheet is the most current by contacting their local New Guard Coatings Group branch prior to using the coating/product.

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Jotamastic 90 GF

Product description

This is a two component polyamine cured epoxy mastic coating. It is a surface tolerant, abrasion resistant, high solids, high build product. It is reinforced with glass flakes for improved abrasion and scratch resistance. Specially designed for areas where optimum surface preparation is not possible or required. 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, galvanized steel, stainless steel, aluminum, concrete and a range of aged coating surfaces. It can be applied at sub zero surface temperatures.

Typical use

General:

Primarily designed for maintenance and repair. Specially suitable for surfaces exposed to considerable wear and tear such as high traffic areas.

Other variants available

Jotamastic 90

Refer to separate TDS for each variant.

Colors

grey, red

selected range of colors tinted over Multicolor Industry tinting system (MCI)

Product data

| Property | Test/Standard | Description |
|-----------------------|-------------------|--------------------|
| STANDARD GRADE | | |
| Solids by volume | ISO 3233 | 80 ± 2 % |
| Gloss level (GU 60 °) | ISO 2813 | semi gloss (35-70) |
| Flash point | ISO 3679 Method 1 | 95 °F (35 °C) |
| Density | calculated | 1.4 kg/l |

| Region | Regulation | Test Standard | VOC Value |
|--------|----------------------------------|---------------|-------------|
| US | CARB(SCM)2020 / SCAQMD rule 1113 | Calculated | 1.7 lbs/gal |

WINTER GRADE

Solids by volume ISO 3233 80 ± 2 %
Flash point ISO 3679 Method 1

Density calculated 97 °F (36 °C)
1.4 kg/l

| Region | Regulation | Test Standard | VOC Value |
|--------|----------------------------------|---------------|-------------|
| US | CARB(SCM)2020 / SCAQMD rule 1113 | Calculated | 1.7 lbs/gal |

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

Gloss description: According to Jotun Performance Coatings' definition.

Film thickness per coat

Typical recommended specification range

STANDARD GRADE

| | | |
|----------------------------|--|--|
| Dry film thickness | 8 mils (200 µm) | 12 mils (300 µm) |
| Wet film thickness | 10 mils (250 µm) | 15 mils (375 µm) |
| Theoretical spreading rate | 160 ft ² /gal (4 m ² /l) | 110 ft ² /gal (2.7 m ² /l) |

WINTER GRADE

| | | |
|----------------------------|--|--|
| Dry film thickness | 8 mils (200 µm) | - 12 mils (300 µm) |
| Wet film thickness | 10 mils (250 µm) | 15 mils (375 µm) |
| Theoretical spreading rate | 163 ft ² /gal (4 m ² /l) | 110 ft ² /gal (2.7 m ² /l) |

Surface preparation

Surface preparation summary table

| Substrate | Surface preparation | |
|-----------------|--|--|
| | Minimum | Recommended |
| Carbon steel | St 2 (ISO 8501-1) or SSPC SP-2 | Sa 2 (ISO 8501-1) / SP 6 / NACE No. 3 (SSPC-VIS 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. |

| | | |
|-------------------|--|--|
| 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. | 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. | 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) / SP 6 / NACE No. 3 (SSPC-VIS 1) |
| Coated surfaces | Clean, dry and undamaged compatible coating | Clean, dry and undamaged compatible coating |
| 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. |

Optimum performance, including adhesion, corrosion protection, heat resistance and chemical resistance is achieved with recommended surface preparation.

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.

Product mixing ratio (by volume)

STANDARD GRADE

Jotamastic 90 GF Comp A 3.5 part(s)
Jotamastic 90 Standard Comp B 1 part(s)

WINTER GRADE

Jotamastic 90 GF Comp A 3.5 part(s)
Jotamastic 90 Wintergrade Comp B 1 part(s)

Thinner/Cleaning solvent

Thinner: Jotun Thinner No. 17

Guiding data for airless spray

Nozzle tip (inch/1000): 21-27
Pressure at nozzle (minimum): 200 bar/2900 psi

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, polysiloxane, epoxy, acrylic, vinyl epoxy

Packaging (typical)

| | Volume (liters) | Size of containers (liters) |
|----------------------------------|----------------------------|--|
| Jotamastic 90 GF Comp A | 15.6 | 20 |
| Jotamastic 90 Standard Comp B | 4.4 | 5 |
| Jotamastic 90 Wintergrade Comp B | 4.4 | 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.

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 73°F (23 °C)

| | |
|----------------------------------|-------------|
| Jotamastic 90 GF Comp A | 48 month(s) |
| Jotamastic 90 Standard Comp B | 24 month(s) |
| Jotamastic 90 Wintergrade 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.

Note

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.

Color variation

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

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

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.