



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.

• USA •



www.newguardcoatings.com

 usasales@newguardcoatings.com

 +1 (302) 257 5760

Marathon 550

Product description

This is a two component polyamine cured epoxy coating. It is a surface tolerant product that can be applied on moist substrates. Will continue to cure when immersed in water. The product has high abrasion resistance. Suitable for environments with very high corrosivity, such as areas in the splash or tidal zone. Can be used as primer, mid coat, finish coat or as single coat system in atmospheric and immersed environments. It has excellent resistance to cathodic disbonding. Suitable for properly prepared carbon steel, galvanized steel, stainless steel, aluminum and concrete substrates.

Typical use

Suitable for structural steel and piping to be exposed to corrosive environments up to very high and immersed. Recommended for offshore environments, refineries, power plants, bridges, buildings, mining equipment and general structural steel. Specially suited in areas where high mechanical strength is required, such as splash or tidal zones. Compatible with cathodic protection systems.

Approvals and certificates

NORSOK Standard M-501, Edition 6, Coating system no. 4 - Walkways, escape routes and lay down areas
NORSOK Standard M-501, Edition 6, Coating system no. 7A - Carbon and stainless steel in the splash zone
NORSOK Standard M-501, Edition 6, Coating system no. 7B - Submerged carbon and stainless steel ≤ 122 °F (50 °C)

Additional certificates and approvals may be available on request.

Colors

according to Multicolor Industry tinting system (MCI)

Product data

Property	Test/Standard	Description
Solids by volume	ISO 3233	85 ± 2 %
Gloss level (GU 60 °)	ISO 2813	gloss (70-85)
Flash point	ISO 3679 Method 1	108 °F (42 °C)
Density	calculated	1.6 kg/l
VOC-US/Hong Kong	US EPA method 24 (tested) (CARB(SCM)2007, SCAQMD rule 1113, Hong Kong)	1.38 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.

Exposure to water or humidity soon after application may affect the coating surface and give a whitish appearance, especially on dark and strong colors. This will however not affect the protective properties.

Film thickness per coat

Typical recommended specification range

Dry film thickness	8 mils (200 µm)	- 22 mils (550 µm)
Wet film thickness	9 mils (235 µm)	- 26 mils (650 µm)
Theoretical spreading rate	180 ft ² /gal (4.3 m ² /l)	- 60 ft ² /gal (1.5 m ² /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
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.
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.
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.
Concrete	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.	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.
Coated surfaces	Clean, dry and undamaged compatible coating	Clean, dry and undamaged compatible coating
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)

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)

Marathon 550 Comp A	4 part(s)
Marathon 550 Comp B	1 part(s)

Thinner/Cleaning solvent

Thinner:	Jotun Thinner No. 17
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Guiding data for airless spray

Nozzle tip (inch/1000):	21-27
Pressure at nozzle (minimum):	170 bar / 2500 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	10 °C	15 °C	23 °C	40 °C
Surface (touch) dry	15 h	11 h	9 h	4 h	1.5 h
Walk-on-dry	26 h	18 h	14 h	8 h	3 h
Dried to over coat, minimum	26 h	18 h	14 h	8 h	3 h
Dried/cured for service	14 d	10 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.

Excess DFT and/or thinning will prolong drying and curing.

If the product is applied during the tidal zone on piles and jetties, it can be immersed after 1 hour. Early immersion will lead to a whitening of colors, most visible on darker colors. The corrosion performance is however not affected.

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

Paint temperature	23 °C	40 °C
Pot life	1 h	20 min

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: epoxy, inorganic zinc silicate shop primer, epoxy shop primer
Subsequent coat: epoxy, polyurethane, polysiloxane

Packaging (typical)

	Volume (liters)	Size of containers (liters)
Marathon 550 Comp A	14.4	20
Marathon 550 Comp B	3.6	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, 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)

Marathon 550 Comp A	24 month(s)
Marathon 550 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 may fade and 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., and application quality. 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.