



# New Guard Coatings Group

A global reputation to protect.

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.

[www.newguardcoatings.com](http://www.newguardcoatings.com)

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## Hardtop Pro

### Product description

This is a two component chemically curing acrylic polysiloxane coating. It is a high solids product. It has a high gloss finish. It has excellent gloss and colour retention. It has very good mechanical properties and chemical resistance. To be used as topcoat in atmospheric environments. The product is fully recoatable at any stage of curing. It cures down to 0 °C. The product does not contain isocyanates, neither does it generate di-isocyanates during hotwork / welding or fire.

### Typical use

Protective:

Recommended for offshore structures, tank farms, refineries, power plants, bridges and buildings. Suitable for a wide range of industrial structures.

Marine:

Recommended for topside, deck and superstructure.

### Approvals and certificates

Pre-qualified in accordance with NORSOK M-501, Edition 6, System 1

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.

### Colours

according to colour card and Multicolor Industry tinting system (MCI)  
selected signal colours

### Product data

Property	Test/Standard	Description
Solids by volume	ISO 3233	65 ± 2 %
Gloss level (GU 60 °)	ISO 2813	high gloss (85+)
Flash point	ISO 3679 Method 1	28 °C
Density	calculated	1.4 kg/l
VOC-US/Hong Kong	US EPA method 24 (tested) (CARB(SCM)2007, SCAQMD rule 1113, Hong Kong)	320 g/l
VOC-EU	IED (2010/75/EU) (theoretical)	310 g/l
VOC-China	GB/T 23985-2009 (tested)	317 g/l
VOC-Korea	Korea Clean Air Conservation Act (tested) (Max. thinning ratio included)	325 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	50 - 130	µm
Wet film thickness	75 - 200	µm
Theoretical spreading rate	13 - 5	m <sup>2</sup> /l

Bright colours may need film thickness in the high end of the recommended specification range to achieve opacity.

## Surface preparation

### Surface preparation summary table

Substrate	Surface preparation	
	Minimum	Recommended
Coated surfaces	Clean, dry and undamaged compatible coating	Clean, dry and undamaged compatible coating

## Application

### Application methods

The product can be applied by

- Spray: Use air spray or airless spray.  
Brush: Use a suitable brush. Care must be taken to achieve the specified dry film thickness.  
Roller: Use a suitable roller. Care must be taken to achieve the specified dry film thickness.

### Product mixing ratio (by volume)

Hardtop Pro Comp A	3 part(s)
Hardtop Pro Comp B	1 part(s)

### Thinner/Cleaning solvent

Thinner: Jotun Thinner No. 10 / Jotun Thinner No. 66

Jotun Thinner No. 66 can be used where xylene free solvents are required.  
Please consult the local Jotun representative for advice during application in severe conditions.  
Do not thin more than allowed by local Health, Safety and Environment Regulations.

### Guiding data for airless spray

Nozzle tip (inch/1000):	13-19
Pressure at nozzle (minimum):	150 bar/2100 psi

## Drying and Curing time

Substrate temperature	0 °C	5 °C	10 °C	23 °C	40 °C
Surface (touch) dry	15 h	10 h	7 h	5 h	3 h
Walk-on-dry	32 h	25 h	20 h	8 h	4 h
Dry to over coat, minimum	32 h	25 h	20 h	8 h	4 h
Dried/cured for service	20 d	15 d	10 d	5 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.

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	15 min
Pot life	3 h

## Heat resistance

	Temperature	
	Continuous	Peak
Dry, atmospheric	120 °C	140 °C

Peak temperature duration max. 1 hour.

The temperatures listed relate to retention of protective properties. Aesthetic properties may suffer at these temperatures.

## 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, epoxy mastic, polyurethane, polysiloxane, two component acrylic  
Subsequent coat: polysiloxane

## Packaging (typical)

	Volume (litres)	Size of containers (litres)
Hardtop Pro Comp A	3.75/15	5/20
Hardtop Pro Comp B	1.25/5	3/5

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

Hardtop Pro Comp A	24 month(s)
Hardtop Pro Comp B	12 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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## 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.

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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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