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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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Technical Data Hardtop AS



Product description

Hardtop AS is a two-pack polyurethane topcoat with excellent gloss and colour retention. Hardtop AS bases are intermediates and need to be processed before use.

Recommended use

As topcoat over an epoxy/epoxy mastic system where a durable, high gloss finish is required in aggressive atmospheric exposure. Cures at low temperatures.

Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (µm)	40	60	50
Film thickness, wet (µm)	80	120	100
Theoretical spreading rate (m²/l)	12,5	8,3	10

Approvals

Australian APAS approved to specification 2911.

Physical properties

Colour According to colour card and Multicolor tinting system (MCI)

Solids (vol %)* 50 ± 2

Flash point 26°C ± 2 (Setaflash)

VOC 415 gms/ltr UK-PG6/23(97). Appendix 3

Gloss
Glossy
Gloss retention
Water resistance
Abrasion resistance
Solvent resistance
Chemical resistance
Very good
Very good
Very good
Very good
Very good
*Measured according to ISO 3233:1998 (E)

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Surface preparation

All surfaces should be clean, dry and free from contamination. The surface should be assessed and treated in accordance with ISO 8504.

Coated surfaces

Clean, dry and undamaged compatible primer. Please contact your local Jotun office for more information.

Other surfaces

The coating may be used on other substrates. Please contact your local Jotun office for more information.

Condition during application

The temperature of the substrate should be minimum 0°C and at least 3°C above the dew point of the air, temperature and relative humidity measured in the vicinity of the substrate. Good ventilation is usually required in confined areas to ensure proper drying.

Application methods

Spray Use airless spray

Brush Recommended for stripe coating and small areas, care must be taken to achieve the specified dry

film thickness.

Application data

Mixing ratio (volume) 4:1

Mixing 4 parts of Comp. A (base) to be mixed thoroughly with 1 part Hardtop AS/HB,

Comp. B (curing agent).

Pot life (23°C) 4 hours (Reduced at higher temp.).

Thinner/Cleaner Jotun Thinner No. 10

Guiding data airless spray

Pressure at nozzle 15 MPa (150 kp/cm², 2100 psi).

Nozzle tip 0.33-0.46 mm (0.013-0.018").

Spray angle 40-80°

Filter Check to ensure that filters are clean.

Drying time

Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly. The figures given in the table are typical with:

- * Good ventilation (Outdoor exposure or free circulation of air)
- * Typical film thickness
- * One coat on top of inert substrate

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Substrate temperature	0°C	5°C	10°C	23°C	40°C
Surface dry	8 h	4 h	2 h	1 h	0,5 h
Through dry	40 h	30 h	16 h	8 h	4 h
Cured	20 d	15 d	10 d	5 d	2 d
Dry to recoat, minimum	24 h	18 h	10 h	5 h	2,5 h
Dry to recoat, maximum ¹					

- 1. The surface must be free from any chalking or any other contamination and if necessary, sufficiently roughened prior to application.
- 2. Early exposure to condensation (high humidity, low temperature) may cause colour and/or gloss variations.

The given data must be considered as guidelines only. The actual drying time/times before recoating may be shorter or longer, depending on film thickness, ventilation, humidity, underlying paint system, requirement for early handling and mechanical strength etc. A complete system can be described on a system sheet, where all parameters and special conditions could be included.

Typical paint system

Jotamastic 87 2 x 150 μm (Dry Film Thickness)
Hardtop AS 1 x 50 μm (Dry Film Thickness)

Note: To obtain full coverage an extra coat may be necessary, especially for signal colours in red, orange and yellow. Other systems may be specified, depending on area of use

Storage

The product must be stored in accordance with national regulations. Storage conditions are to keep the containers in a dry, cool, well ventilated space and away from source of heat and ignition. Containers must be kept tightly closed.

Handling

Handle with care. Stir well before use.

Packing size

20 litre unit: 16 litres Comp. A in a 20 litre container and 4 litres Hardtop AS/HB Comp. B in a 5 litre container.

5 litre unit: 4 litres Comp. A in a 5 litre container and 1 litre Hardtop AS/HB Comp. B in a 1 litre container.

Health and safety

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not breathe or inhale 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.

For detailed information on the health and safety hazards and precautions for use of this product, we refer to the Material Safety Data Sheet.

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DISCLAIMER

The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, as the product can be used under conditions beyond our control, we can only guarantee the quality of the product itself. We also reserve the right to change the given data without notice. Minor product variations may be implemented in order to comply with local requirements.

If there is any inconsistency in the text the English (UK) version will prevail.

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