

Technical Data

Hardtop AS Aluminium



Product description

Hardtop AS Aluminium is a two-pack polyurethane topcoat with excellent gloss and colour retention.

Recommended use

As topcoat over an epoxy/epoxymastic system where a durable, semigloss finish is required in aggressive atmospheric exposure.

Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (µm)	30	50	40
Film thickness, wet (µm)	60	110	90
Theoretical spreading rate (m ² /l)	15	9	11,3

Physical properties

Colour	RAL 9006
Solids (vol %)*	45 ± 2
Flash point	26°C ± 2 (Setaflash)
VOC	474 gms/ltr UK-PG6/23(97). Appendix 3
Gloss	Semigloss
Gloss retention	Very good
Water resistance	Very good
Abrasion resistance	Very good
Solvent resistance	Very good
Chemical resistance	Very good
Flexibility	Good

*Measured according to ISO 3233:1998 (E)

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 5°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 required in confined areas to ensure correct 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/cm ² , 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.

Note	Important: Colour and gloss information: It is not possible to produce this colour to fully match RAL 9006. A slight variation from what is depicted in RAL colour cards is to be expected. Aluminium finish will also vary in colour and gloss depending on application method, DFT and temperature/humidity during application. This aluminium finish gives a matter aspect than that of traditional polyurethane colours, but a high gloss finish can be obtained by applying a polyurethane clear coat. Application of a clear coat may also lead to a slight variation of the aluminium colour shade originally achieved by application of Hardtop AS Aluminium on it'sown.
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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

Substrate temperature	5°C	10°C	23°C	40°C
Surface dry	8 h	6 h	3 h	1 h
Through dry	40 h	20 h	10 h	5 h
Cured	20 d	15 d	7 d	3 d
Dry to recoat, minimum	24 h	12 h	7 h	3 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.

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 Aluminium	1 x 40 µm	(Dry Film Thickness)

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 (base) in a 20 litre container and 4 litres Hardtop AS/HB, Comp. B (curing agent) in a 5 litre container.

or

5 litre unit: 4 litres Comp. A (base) in a 5 litre container and 1 litre Hardtop AS/HB, Comp. B. (curing agent) 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.

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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