

Technical Data

HARDTOP AS



Product description

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

Recommended use

As topcoat over an epoxy/epoxymastic 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)	30	50	40
Film thickness, wet (μm)	60	100	80
Theoretical spreading rate (m^2/l)	16.7	10	12.5

Physical properties

Colour	According to colour card and Multicolor tinting system (MCI)
Solids (vol %)*	50 \pm 2
Flash point	26°C \pm 2 (Setaflash)
Gloss	Glossy
Gloss retention	Excellent
Water resistance	Very good
Abrasion resistance	Very good
Solvent resistance	Very good
Chemical resistance	Very good
Flexibility	Very 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 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 parts of Comp. A (base) to be mixed thoroughly with 1 part 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

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.

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)

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 Comp. B in a 5 litre container.
or

5 litre unit: 4 litres Comp. A in a 5 litre container and 1 litre Comp. B in a 1 litre container.
Packing may vary from country to country according to local requirements.

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 is often used under conditions beyond our control, we cannot guarantee anything but the quality of the product itself. We reserve the right to change the given data without notice.

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ISSUED 13 FEBRUARY 2002 BY JOTUN PAINTS
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