

# Technical Data

## Hardtop XP Alu



### Product description

This is a two component, high solid, aliphatic polyurethane topcoat. It has an aluminium sheen finish with good gloss retention.

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### Recommended use

As a glossy topcoat over most epoxy systems where a durable, weather resistant finish is required in a wide range of aggressive atmospheres.

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### Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry ( $\mu\text{m}$ )	30	100	60
Film thickness, wet ( $\mu\text{m}$ )	50	160	95
Theoretical spreading rate ( $\text{m}^2/\text{l}$ )	21	6,3	10,2

### Comments

Light colored primers will improve the visual effect of the aluminium shade. Be aware that hiding power may vary with film thickness. Please contact your local Jotun office for more information.

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## Physical properties

<b>Colour</b>	RAL 9006 White Aluminium, RAL 9007
<b>Solids (vol %)*</b>	63 ± 2
<b>Flash point</b>	30°C ± 2 (Setaflash)
<b>VOC</b>	2,8 lbs/gal (336 gms/ltr) USA-EPA Method 24 320 gms/ltr UK-PG6/23(97). Appendix 3
<b>Gloss</b>	Glossy
<b>Gloss retention</b>	Good
<b>Water resistance</b>	Very good
<b>Abrasion resistance</b>	Very good
<b>Solvent resistance</b>	Good
<b>Chemical resistance</b>	Good
<b>Flexibility</b>	Very good

\*Measured according to ISO 3233:1998 (E)

Hong Kong rules:

Category of paints - Other vessel coatings; VOC 336 gms/ltr HK EPD method (Ready to use); Exempt compound - N/A; Specific gravity: 1.22 gms/ltr (A+B); Both VOC and Specific gravity values provided are typical values, subject to changes when different colour involved.

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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.

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## 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.

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## Application methods

<b>Spray</b>	Use airless spray or conventional spray
<b>Brush</b>	Recommended for stripe coating and small areas, care must be taken to achieve the specified dry film thickness.

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## Application data

<b>Mixing ratio (volume)</b>	8:1
<b>Mixing</b>	8 parts of Comp. A (base) to be mixed thoroughly with 1 part of Hardtop XP, Comp. B (curing agent) by powered mechanical equipment. Mix complete units only, do not part mixing of this product.
<b>Pot life (23°C)</b>	1,5 hours
<b>Thinner/Cleaner</b>	Jotun Thinner No. 10/26
<b>Guiding data airless spray</b>	
<b>Pressure at nozzle</b>	15 MPa (150 kp/cm <sup>2</sup> , 2100 psi)
<b>Nozzle tip</b>	0.28-0.38 mm (0.011-0.015")
<b>Spray angle</b>	40-80°
<b>Filter</b>	Check to ensure that filters are clean.
<b>Note</b>	Jotun Thinner No. 26 is supplied and used in USA due to legislation.

Important: Colour and gloss information:

It is not possible to produce this colour to fully match RAL 9006/9007. 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. A high gloss finish can be obtained by applying a 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 XP Alu on it'sown.

Brush application may deliver gloss/color difference from application with spray.

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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

<b>Substrate temperature</b>	<b>0°C</b>	<b>5°C</b>	<b>10°C</b>	<b>23°C</b>	<b>40°C</b>
<b>Surface dry</b>	20 h	16 h	6 h	3,5 h	2 h
<b>Through dry</b>	30 h	24 h	14 h	7 h	4 h
<b>Cured</b>	21 d	21 d	14 d	7 d	3 d
<b>Dry to recoat, minimum</b>	30 h	24 h	14 h	7 h	4 h
<b>Dry to recoat, maximum <sup>1</sup></b>					

1. The surface should be dry and free from any contamination or chalking, and if necessary, sufficiently roughened prior to application of the subsequent coat.
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.

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## Typical paint system

Jotacote Universal	1 x 150 µm	(Dry Film Thickness)
<b>Hardtop XP Alu</b>	<b>2 x 60 µm</b>	<b>(Dry Film Thickness)</b>
Jotamastic 87	1 x 150 µm	(Dry Film Thickness)
<b>Hardtop XP Alu</b>	<b>2 x 60 µm</b>	<b>(Dry Film Thickness)</b>

**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

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## 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.

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## Handling

Handle with care. Stir well before use.

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## Packing size

16.2 litre unit: 14,4 litres Comp. A in a 20 litre container and 1,8 litres Hardtop XP Comp. B (curing agent) in a 3 litre container or

4.05 litre unit: 3.6 litres Comp. A in a 5 litre container and 0,45 litres Hardtop XP Comp. B (curing agent) in a 1 litre container.

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## 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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