

# Technical Data

## DURATHANE



### Product description

Durathane is a two-pack polyurethane topcoat having excellent weather, ultra violet light resistance and colour retention properties.

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### Recommended use

As a topcoat in a decorative paint system where Glossy finish is required. This product is also recommended on an epoxy primed surface where a high performance topcoat is required. Saudi Aramco approved product under APCS-ID, IF, IE and 26T. Stock No. 09-612365, 09-912367.

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### Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry ( $\mu\text{m}$ )	30	50	40
Film thickness, wet ( $\mu\text{m}$ )	60	100	80
Theoretical spreading rate ( $\text{m}^2/\text{l}$ )	16.6	10.0	12.5

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### Physical properties

Colour	As per the colour card.
Solids (vol %)*	48 $\pm$ 2
Specific Gravity	1.2-1.3 (after mixing)
Flash point	31°C $\pm$ 2 (Setaflash)
Gloss	Glossy
Gloss retention	Very good
Water resistance	Very good
Chemical resistance	Very good
Solvent resistance	Very good
Abrasion resistance	Very good

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### Surface preparation

The substrate must be sound, clean, dry, free from dust, oil, grease and laitance etc. All traces of release agents must be removed. On chalky and dusty surfaces, all loose material must be removed by stiff bristle brushing.

#### 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. With forced ventilation avoid heated air at first as this may cause surface drying and solvent entrapment. Durathane should not be exposed to mechanical wear before being fully cured.

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## Application methods

Spray	Use airless spray or conventional spray
Brush	Recommended.
Roller	Recommended.

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## Application data

Mixing ratio (volume)	9 parts of Comp. A (base) to 1 part Comp. B (curing agent)
Pot life (23°C)	4 hours (Reduced at higher temperature).
Thinner/Cleaner	Jotun Thinner No. 10
Guiding data airless spray	
Pressure at nozzle	15 MPa (150 kp/cm <sup>2</sup> 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	Depending on working condition's, temperature, application equipment etc., it may be necessary to adjust the viscosity by adding from, up to 10% Jotun Thinner No. 10.

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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	35°C	45°C
Surface Dry	8 h	4 h	2 h	1 h	45 min
Through Dry	3 days	2 days	24 h	10 h	8 h
Fully Cured	16 days	10 days	5 days	2 days	1¼ day
Dry to recoat, minimum	16 h	10 h	5 h	3 h	2 h
Dry to recoat, maximum					

- 1 Recommended data given for recoating with the same generic type of paint.
- 2 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.

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## Typical paint system

### Decorative systems - Concrete or plastered surface

Jotashield Alkali resistant Primer	1 coat
Acrylic Texo HB	1 coat
<b>Durathane</b>	<b>2 coats</b>

### On Steel Surfaces.

Penguard Primer	1x 50 mic
Penguard HB	1x 100 mic
<b>Durathane</b>	<b>2x 40 mic</b>

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

18 ltr Comp A, 2 ltr Comp B

4.5 ltr Comp A, 0.5 ltr Comp B

Packing may vary from country to country according to local requirements.

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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 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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