

# Technical Data

## Imperite 300



### Product description

Imperite 300 is a high gloss two-pack polyester-polyurethane topcoat with excellent gloss and colour retention.

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### Recommended use

As topcoat over an epoxy system where a durable, high gloss finish is required in aggressive atmospheric exposure. Cures at low temperatures. Imperite 300 is suitable for conventional spray application.

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### Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (µm)	30	50	40
Film thickness, wet (µm)	55	90	70
Theoretical spreading rate (m <sup>2</sup> /l)	19,3	11,6	14,5

### Comments

Film thickness, wet (µm) excluding solvent addition.

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### Approvals

APAS approved to specification 0145/1, 1441/2 and 2911.

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### Physical properties

Colour	According to colour card and Multicolor tinting system (MCI)
Solids (vol %)*	58 ± 2
Flash point	15°C ± 2
VOC	430 gms/ltr UK-PG6/23(97). Appendix 3
Gloss	Glossy
Gloss retention	Excellent
Water resistance	Very good
Abrasion resistance	Very good
Solvent resistance	Very good
Flexibility	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.

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## Condition during application

The temperature of the substrate should be minimum 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 correct drying.

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## Application methods

**Spray** Conventional air-atomised, airless spray or air-assisted airless.

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## Application data

**Mixing ratio (volume)** 3:1

**Mixing** 3 parts Comp. A (base) to 1 part Imperite 300, Comp. B (curing agent)

**Pot life (23°C)** 8 hours (Reduced at higher temp.)

### Thinner/Cleaner

The ideal viscosity of Imperite 300 is approximately Ford No. 4: 17 seconds (equivalent to DIN No. 4: 22 seconds). This viscosity can be achieved by thinning the product with Jotun Thinner No. 18 at temperatures above 20°C, use Jotun Thinner No. 19 at temperatures below 15°C, and use a blend of Jotun Thinner No. 18 and Jotun Thinner No. 19 at temperatures between 15-20°C.

### Spray Tip Orifice

#### Guiding data conventional spray

**Pressure at nozzle** 0.2 -0.35MPa (40-50 psi)

**Nozzle tip** 1.1-1.8mm (0.043-0.071")

**Filter** 100 micron recommended

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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	10°C	23°C	40°C
Surface dry	10 h	3 h	1 h
Through dry	40 h	16 h	6 h
Cured	10 d	7 d	3 d
Dry to recoat, minimum	24 h	16 h	8 h
Dry to recoat, maximum <sup>1</sup>	72 h	72 h	36 h

1. The surface should be dry and free from any contamination prior to application of the subsequent coat.

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

Steel surface:

Resist 86 AU	1 x 75 µm	(Dry Film Thickness)
Penguard HB	1-2 x 150 µm	(Dry Film Thickness)
Imperite 300	2 x 40 µm	(Dry Film Thickness)

Apply two coats, wet-on-wet, allowing 20-40 minutes (dependent on temperature and solvent used) tack-dry time between each coat.

**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

20 litre unit: 15 litres Comp. A in a 20 litre container and 5 litres Imperite 300, Comp. B in a 5 litre container.

or

4 litre unit: 3 litres Comp. A in a 4 litre container and 1 litre Imperite 300, Comp. B 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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THIS DATA SHEET SUPERSEDES THOSE PREVIOUSLY ISSUED