

Technical Data

DURATHANE



Product description

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

Recommended use

As a topcoat in an industrial or a decorative paint system, on steel or concrete, where a glossy finish is required.

Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (μm)	30	50	40
Film thickness, wet (μm)	65	105	85
Theoretical spreading rate (m^2/l)	16	9.6	12

Physical properties

Colour	Available in white and colours tinted from Multicolour Industry tinting system (MCI)
Solids (vol %)*	48 \pm 2
Flash point	25°C \pm 2 (Setaflash)
Gloss	Glossy
Gloss retention	Very good
Water resistance	Very good
Abrasion resistance	Very good
Solvent resistance	Good
Chemical resistance	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. 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 or conventional 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)	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 For hot climate and slower evaporation, use Jotun Thinner No. 25.

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	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. For hot climate and slower evaporation, use Jotun Thinner No. 25.

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	4 h	2 h	1 h	0.5 h	0.5 h
Through dry	20 h	10 h	6 h	3 h	1.5 h
Cured	20 d	15 d	10 d	5 d	2 d
Dry to recoat, minimum ¹	12 h	10 h	6 h	3 h	1.5 h

- 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.

Typical paint system

On steel		
Barrier	1 x 50 microns	(Dry film thickness)
Penguard HB	1 x 100 microns	(Dry film thickness)
Penguard HB	1 x 100 microns	(Dry film thickness)
Durathane	1 x 40 microns	(Dry film thickness)

Decorative systems - Concrete / plastered surface

Penguard HB (diluted with Thinner No. 17 (25-30 %)	1 coat
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	Penguard Texo	1 coat
	Durathane	2 coats
(If required for very porous surfaces a coat of Penguard Clear Sealer may be used)		
II	Acrylic Emulsion Primer / Tex Primer	1 coat
	Texo Compound	1 coat
	Durathane	2 coats

III Topcoat on water based textured system.

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

18 ltr Comp A, 2 ltr Comp B

3.6 ltr Comp A, 0.4 ltr Comp B

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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