

Product Data Sheet

Jotun Durasol

Product Description Jotun Durasol is a hyper durable powder coatings based predominantly on PVF3-copolymer technology. It is specially formulated to provide advanced weatherability and aesthetic appearance with superior levels of resistance to UV light, humidity and dirt pick-up to meet the stringent requirements of the building industry for high performance and long lasting service life finishes.

Jotun Durasol imparts outstanding gloss retention and colour stability properties combined with optimum functional properties to ensure highest corrosion resistance levels.

Application Areas Jotun Durasol is highly recommended for architectural aluminium extrusions and claddings where climatic conditions put severe strain on exterior coatings and where gloss retention and colour stability are required.

When screen printing or sealants are used, it is advised to run separate trials to ensure compatibility and to meet the required performance criteria.

Pre-treatment The overall quality of the coating system is largely dependent on the type and quality of the pre-treatment. The recommended type of pre-treatment is:

Aluminium	Chromate conversion
Final rinse (deionized)	The last running water from the object should be tested at 20°C. The readings obtained should measure below 30µS/cm.

Suitable chrome-free pre-treatments for Aluminium are also recommended. Due to the variety of chrome-free pre-treatments available today, only the approved systems from Qualicoat and GSB should be used. Detailed advice should be sought from the pre-treatment supplier.

Curing Schedules Minimum 15 minutes at 190°C object temperature
Minimum 10 minutes at 200°C object temperature

Colour Selection A selected range of RAL colours are available to order. Other colours can be made available subject to technical appraisal.

Powder Application Jotun Durasol is available for Corona or Tribo charging equipment

Product Warranty Jotun Durasol is backed by a 30-year product warranty system when used on architectural aluminium substrates, subject to the terms and conditions

Storage Conditions Keep in a dry cool area. Maximum temperature 25°C. Maximum relative humidity 60%. Under these mentioned conditions, product shelf life is 6 months from production date.

Maintenance Please refer to "Powder Coated Façades' Maintenance" document.

Approvals Please consult your local Jotun Powder Coatings' production unit.

Technical Data

The technical data provided below are typical for Jotun Durasol applied to 0.8mm chromated aluminium panels (50 to 70 micron film thickness). Typical values when tested have not necessarily been recently revised.

Description	Norm	Jotun Durasol
Gloss*	EN ISO 2813 (60°)	20 ± 5
Adhesion	EN ISO 2409 (2mm)	Cross-cut rating Gt0 (100% adhesion).
Impact resistance	EN ISO 6272/ASTM D2794 (impactor diameter 15.9 mm)	Passes 2.5 Nm without detachment after tape pull test (Scotch 250 or Permaceel 99).
Cupping test	EN ISO 1520	Passes 5mm indentation without detachment after tape pull test (Scotch 250 or Permaceel 99).
Flexibility	EN ISO 1519	Passes 5mm cylindrical Mandrel bend test without detachment after tape pull test (Scotch 250 or Permaceel 99).
Film hardness	EN ISO 2815	Indentation resistance according to Buchholz: > 80.
Mortar resistance	EN 12206-1	The mortar must be easy to remove without leaving any residues
Drilling, milling and sawing test		No flaking of coating.
Neutral salt spray resistance	ASTM B117	No blistering or loss of adhesion after 4,000 hours.
Humidity resistance containing SO ₂	EN ISO 3231 (0.2 l SO ₂)	No infiltration exceeding 1 mm on both sides of the scratch after 40 cycles.
Humidity resistance	EN-ISO 6270-2	No infiltration exceeding 1 mm on both sides of the scratch after 4,000 hours.
Acetic acid salt spray resistance	ISO 9227	After 2,000 hours testing – maximum 16 mm ² infiltration over a scratch length of 10cm.
Accelerated weathering	DIN EN ISO 11507(UVB - 313)	Cycle: 4 hours at 50°C UV and 4 hours at 40°C condensation. No chalking, excellent gloss retention and colour stability after 1,200 hours testing.
Accelerated weathering	DIN EN ISO 11507 (UVA - 340)	Cycle: 8 hours at 60°C UV and 4 hours at 45°C condensation. No chalking, excellent gloss retention and colour stability after 5,000 hours testing.
Natural weathering test	ISO 2810 (South Florida, 27°N)	Hyper Durable technology shows no chalking, excellent gloss retention and colour stability after 120 months (10 years) exposure (angle of 45° to South).
Flame Spread Index	ASTM E 84-06a	Class 1 or A
Smoke Development	ASTM E 84-06a	Class 1 or A

* If the significant surface is too small or unsuitable for the gloss to be measured with the glossmeter, the gloss should be compared visually with the reference sample (from the same viewing angle).

Note: The information on this Product Data Sheet is given to the best of the manufacturer's knowledge, based on laboratory testing and practical experience. However, as the product is often used under conditions beyond the manufacturer's control, only the quality of the product itself can be guaranteed. Jotun Powder Coatings reserves the right without notice to alter or change the content of this Product Data Sheet.

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THIS PRODUCT DATA SHEET SUPERSEDES ALL PREVIOUSLY ISSUED VERSIONS.