

Interpon D1094 Matt

The information given in this datasheet is generic for the range **Interpon D1094 Matt**. Specific products within the range can vary from the generic. For these products individual product datasheets are available

Product Description:

Interpon D1094 Matt is a range of powder coatings intended for use on architectural aluminium and galvanised steel.

Available in a wide stock range **Interpon D1094 Matt** has been specifically formulated without the use of TGIC. As part of the **Interpon D** series of architectural powders, **Interpon D1094 Matt** gives excellent exterior durability and colour retention and conforms with the requirements of all the major European architectural finishing standards.

All **Interpon D1094 Matt** powders are formulated to meet fully the requirements of EN 12206 (formerly BS6496), BS6497:1984, Qualicoat Class 1 and GSB.

Powder Properties:

Chemical type	Polyester
Gloss	25±5
Particle Size	Suitable for electrostatic and tribostatic application
Specific gravity	1.3-1.7 g/cm ³ depending on colour
Storage	Dry cool conditions
Shelf life	18 months below 30°C peak temperature 12 months below 35°C peak temperature
Sales Code	R-series
Stoving schedule (object temperature)	15-25 minutes at 190°C 10-20 minutes at 200°C 8 -15 minutes at 210°C

Test Conditions:

The results shown below are based on mechanical and chemical tests which (unless otherwise indicated) have been carried out under laboratory conditions and are given for guidance only. Actual product performance will depend upon the circumstances under which the product is used.

Substrate	Aluminium (0.5-0.8mm Al Mg1)
Pretreatment	Chromate
Film Thickness	60-80microns
Stoving	10 minutes at 200°C (object temperature)

Mechanical Tests:

Adhesion	ISO2409 (2mm Crosshatch)	Gt 0
Erichsen Cupping	ISO1520	Pass >7mm
Hardness	ISO2815	Minimum 80
Impact	ASTM 2794	Pass 2.5 Joules reverse and direct or 20 inch pounds

Chemical and Durability Tests:

Flexibility	ISO1519	Pass 3mm
Salt Spray	ISO7253	Pass at 1000 hours - no corrosion area more than 2mm from scribe.
Acetic Acid Salt Spray	ISO9227	Pass at 1000 hours - <16mm ² corrosion/10cm
Constant Humidity	ISO6270	Pass at 1000 hours - no blistering or creep<1mm
Sulphur Dioxide	ISO3231	Pass 30 cycles - no blistering, creep <1mm from scribe
Chemical Resistance		Generally good resistance to acids, alkalis and oils at normal temperatures

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Chemical and	Permeability	Pressure Cooker EN12206-1:2004 Part 5.10	Pass - no defects after 1 hour (2 hours boiling water)
	Mortar Resistance	EN12206-1:2004 Part 5.9	No effect after 24 hours
Weathering Tests:	Exterior Durability	ISO2810 (Florida 12 months 5° South)	≥50%Gloss retention. Colour retention in accordance with GSB or Qualicoat. Chalking - none in excess of minimum in ASTM D659:1980
	Accelerated Weathering Test	Suntest Original- Hanau-Quartzlampen ISO11341 QUV B313	50% Gloss retention after 1000 hours ≥50% Gloss retention after 300 hours
	Light Fastness	DIN54004	Minimum 7

Pretreatment: For maximum protection it is essential to pretreat architectural components prior to the application of **Interpon D1094 Matt**. Aluminium components should receive a full multi-stage chromate conversion coating, suitable chrome-free pretreatment or suitable pre-anodising to clean and condition the substrate. Detailed advice should be sought from the pretreatment supplier.

Galvanised steel requires surface preparation by either multi-stage pretreatment using either zinc phosphate or chromate conversion or controlled sweep blasting. Depending on the type of galvanising, degassing or use of anti-bubbling additives may be required - follow the procedural advice of the pretreatment supplier.

Interpon D1094 Matt products may also be used on cast or mild steel. For outdoor use **Interpon PZ** anti-corrosive primer over a correctly prepared substrate is recommended.

Application: **Interpon D1094 Matt** can be applied by manual or automatic electrostatic spray or tribocharging equipment. For solid shades unused powder can be reclaimed using suitable equipment and recycled through the coating system. Detailed information and specific advice for special finishes is available upon request. Certain colours should be applied at higher film thickness to ensure coverage.

Post Application: For specific advice on the suitability of post coating processes such bending or the use of sealants, adhesives, thermal break, cleaning, etc. please consult Akzo Nobel.

Safety Precautions: Please consult the Material Safety Datasheet (MSDS) PC010

Disclaimer: The information given in this sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. Whilst we endeavour to ensure that all advice we give about the product (whether in this sheet or otherwise) is correct we have no control over either the quality or condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of the use of the product. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.

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