

# Interpon D36 RAL Metallic

The information given in this datasheet refers to the products **Interpon D36 RAL Metallic** and should not be construed as referring to other products with in the Interpon D1036 range.

**Product Description:** **Interpon D36 RAL Metallic** is a range of 17 coating finishes specifically formulated for use on architectural metal components.

The **Interpon D36** range of polyester powder coatings has been specifically formulated using the **Perform System**, Akzo Nobel's TGIC-free technology.

**Interpon D36 RAL Metallic** coatings give excellent exterior durability and colour retention and conform to the requirements of all the major European architectural finishing standards.

**Interpon D36** powders are lead-free and meet the requirements of GSB, Qualicoat Class 1, and the European standard EN12206 (formerly BS6496), BS6497:1984.

<b>Powder Properties:</b>	<b>Chemical type</b>	Polyester
	<b>Specular Gloss(60°) EN ISO2813</b>	30±5
	<b>Particle size</b>	Suitable for corona & tribo application
	<b>Specific gravity</b>	1.2-1.7 depending on colour
	<b>Storage</b>	Dry cool conditions
	<b>Shelf life</b>	18 months at 30°C 12 months at 35°C
	<b>Sales Code</b>	S-series
	<b>Stoving schedule</b> (object temperature)	15-30 minutes at 180°C 12.5-25 minutes at 190°C 10-20 minutes at 200°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.

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

<b>Mechanical Tests:</b>	<b>Adhesion</b>	ISO2409 (2mm Crosshatch)	Gt 0
	<b>Erichsen Cupping</b>	ISO1520	Pass >5mm
	<b>Hardness</b>	ISO2815	Minimum 80
	<b>Impact</b>	ASTM D2794	Pass 2.5 joules reverse & direct or 20 inch pounds
	<b>Flexibility</b>	ISO1519	Pass 5mm

<b>Corrosion Tests:</b>	<b>Salt Spray</b>	ISO7253	Pass at 1000 hours - no corrosion area more than 2mm from scribe
	<b>Acetic Acid Salt Spray</b>	ISO9227	Pass at 1000 hours - <16mm <sup>2</sup> corrosion/10cm
	<b>Constant Humidity</b>	ISO6270	Pass at 1000 hours - no blistering or loss of gloss
	<b>Sulphur Dioxide</b>	ISO3231	Pass 30 cycles - no blistering, creep <1mm from scribe
	<b>Permeability</b>	Pressure Cooker EN12206-1:2004 Part 5.10	Pass - no blistering or detachment

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	<b>Chemical Resistance</b>		Generally good resistance to dilute acids, alkalis and oils at normal temperatures
	<b>Mortar Resistance</b>	EN12206-1:2004 Part 5.9	No effect after 24 hours
<b>Weathering Tests:</b>	<b>Exterior Durability</b>	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
	<b>Accelerated Weathering Test</b>	Suntest Original-Hanau-Quartzlampen ISO11341	≥50% Gloss retention after 1000 hours
		QUV B313	≥50% Gloss retention after 300 hours
	<b>Light Fastness</b>	DIN54004	Minimum 7

**Pretreatment:** For maximum protection it is essential to pretreat architectural components prior to the application of **Interpon D36 RAL Metallic**. Aluminium components should receive a full multi-stage chromate conversion coating, suitable chrome-free pretreatment or 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 D36 RAL Metallic** 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 D36 Matt (30) Gloss** can be applied by manual or automatic electrostatic spray or tribo charging equipment. Unused powder can be reclaimed using suitable equipment and recycled through the coating system up to a maximum of 30%. Detailed information and specific advice is available upon request.

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

**Safety Precautions:** Please consult the Material Safety Datasheet (MSDS) PC111

**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.