

Product Data Sheet

AkzoNobel Powder Coatings Interpon D1036 Matt (20)

Product Description

Interpon D1036 Matt (20) is a range of powder coatings intended for use on architectural aluminium and galvanized steel. Available in a wide stock range **Interpon D1036 Matt (20)** has been specifically formulated without the use of TGIC.

As part of the **Interpon D** series of architectural powders, **Interpon D1036 Matt (20)** gives excellent exterior durability and colour retention and conforms to the requirements of all the major European architectural finishing standards. All **Interpon D1036 Matt (20)** powders are lead-free and meet the requirements of GSB standard, Qualicoat Class 1, EN12206, and EN13438 (formerly BS6496 & BS6497), and AAMA 2603-13.

Qualicoat Licence number: P-0235 (P/P extension) (France), P-0735 (P/P extension) (Italy), P-0739 (Germany), P-0350 (UK), P-0530 (P/P extension) (Spain), P-0886 (Czech Rep.), P-1126 (Turkey)
GSB Licence Number: 134h (Gloss 20)

Powder Properties

Chemical type	Polyester
Gloss (EN ISO 2813 (60°))	15-25 gloss units
Particle size	Suitable for electrostatic spray
Specific gravity	1.2-1.9g/cm ³ depending on colour
Storage	Dry, cool conditions below 30°C (open boxes must be resealed)
Shelf life	24 months below 30°C 12 months below 35°C
Stoving schedule (object temperature)	30-40 minutes at 180°C 20-30 minutes at 190°C 15-22 minutes at 200°C

Powder on Powder application:

1st phase: Melting and partial curing of the base coat suggested 110-120°C for 15-20 min. (object temp) otherwise refer to the instruction of the spraying equipment supplier
2nd phase: Application of the wood decorative powder according to the instruction of the spraying equipment supplier
3rd phase: Complete curing of the full package for 20-30 minutes at 190°C (object temperature)

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 (0,5-0,8 mm Al Mg1)
Pretreatment	Chromate (DIN 50539)
Dry Film Thickness	60-80microns
Stoving Schedule	25 minutes at 190° C (object temperature)

Mechanical Tests

Flexibility	ISO 1519	Pass 5mm
Adhesion	ISO 2409	Pass Gt0 (2mm Crosshatch)
Erichsen Cupping	ISO 1520	Pass >5mm

Interpon D1036 Matt (20)

	Impact resistance	ISSO 6272 (1993)	Pass 2.5 joules reverse & direct or 20 inch pounds
	Hardness	ISO 2815	>80
Chemical and Durability tests	Acetic acid salt Spray	ISO 9227	Pass at 1000 hours <16 mm ² corrosion/10cm
	Constant humidity	ISO 6270	Pass at 1000 hours - no blistering, creep<1mm
	Sulphur dioxide	ISO 3231	Pass 30 cycles– no blistering, loss of gloss or discoloration
	Permeability	Pressure Cooker EN12206- 5.10	Pass 1 hour – no defects
	Chemical resistance		Generally good resistance to acid, alkalis and oils at normal temperatures.
	Mortar Resistance	EN12206-1	No effect after 24 hours
	Colour stability at elevated temperatures		Good
	Exterior durability	ISO 2810	≥50% gloss retention. Colour retention in accordance with GSB or Qualicoat Chalking – none in excess of minimum in ASTM D659:1980
	Accelerated Weathering Test	ISO11341 QUV-B 313	≥50% gloss retention after 1000 hours ≥50% gloss retention after 300 hours

Pretreatment

For maximum protection it is essential to pretreat components prior to the application of **Interpon D1036 Matt (20)**.

Aluminium components should receive a full multi-stage chromate conversion coating or suitable chrome-free pre-treatment or suitable pre-anodising to clean and condition the substrate. Detailed advice should be sought from the pre-treatment 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 galvanizing, degassing or use of anti-bubbling additives may be required – follow the procedural advice of the pretreatment supplier.

Interpon D1036 Matt (20) 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 D1036 Matt (20) powders can be applied by manual or automatic electrostatic spray or tribo-charging equipment. For solid shades, unused powder can be reclaimed up to a maximum of 30% using suitable equipment and recycled through the system. Please consult AkzoNobel for further details as to the correct mixing ratio for virgin/reclaim powder.

All powders can show small colour differences from batch to batch, this is normal and unavoidable. While AkzoNobel take every precaution to minimize visible differences, this cannot be guaranteed. Applicators and fabricators are advised to use a single batch for parts that will be assembled together. Differences are more likely with special effect powders.

Bonded products have better application properties than blended products (more stable) but attention should still be paid to line settings in order to avoid “marble effect” and changes in aspect after recycling. For more details it is suggested to read the *Metallic Application Guideline*.

Different substrates (aluminium, steel, galvanized steel...), use of primer, and big changes in film thickness may give a different aspect. Products with different codes should not be mixed even if same colour and gloss.

Interpon D1036 Matt (20)

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 AkzoNobel.

Maintenance

For specific advice on Cleaning and Maintenance, please consult the Interpon D series *Cleaning and Maintenance Guidelines* available from AkzoNobel.

Safety Precautions

Please consult the Material Safety Datasheet (MSDS) available from AkzoNobel.

Disclaimer

FOR PROFESSIONAL USE ONLY

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data 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. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

Brand names mentioned in this data sheet are trademarks of or are licensed to AkzoNobel

Akzo Nobel Powder Coatings S.p.A. T +39 (0)31 345 111 For more information, contact your
Via S. Pellico F +39 (0)31 345 34 local AkzoNobel representative
22100 – Como www.interpon.com/contact-us
Italy

Copyright © 2014 Akzo Nobel Powder Coatings Ltd. Interpon is a registered trademark of AkzoNobel
Interpon D1036 Matt (20) - Issue #1
Issued: 19/03/2015

Interpon[®]