

Interpon 200 RPU AS - U3002I/20KG Interpon 200 CHROME METALLIC Gloss

Product Description:

Interpon 200 RPU AS is a range of polyurethane-based powder coatings designed for the exterior environment offering excellent corrosion resistance and flexibility properties.

Exceptionally smooth flow and high gloss make **Interpon 200 RPU AS** powders ideal for applications where a high level of aesthetic finish is required.

Interpon 200 RPU AS powders share the properties of standard **Interpon 200 RPU** powders, but compared to conventional metallic and special effect powders, **Interpon 200 RPU AS** grade products have improved reproducibility between application conditions, and improved stability of colour, gloss and effect when recycled.

All the "bonded" aluminium products belonging to this series, when formulated with **Interpon MR** technology, guarantee resistance to oxidation due to humidity (atmospheric or not) extremely improved with respect to the conventional finishes, with the upkeep of the original aspect. Also the resistance to stain or fingerprint improves clearly.

Powder Properties:

Chemical Type	Aliphatic Polyurethane
Particle Size	Suitable for electrostatic spray
Specific Gravity	1.3-1.7 g/cm ³ (dependent on colours)
Storage	Dry cool conditions below 35°C and safely closed box
Shelf life	12 months
Sales Code	U-series
Stoving Schedule (Object temperature)	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.

Substrate	Mechanical tests: Gold Seal polished steel Chemical & durability tests: Gold Seal lightweight
Pretreatment	Zinc Phosphate
Film Thickness	60-70microns
Stoving	20 minutes at 200°C (object temperature)

Mechanical Tests:

Flexibility	BS3900-E11 (Conical mandrel)	Pass 3mm
	ISO 1519/73 (E) (Cylindric mandrel)	Pass 3/16"
Adhesion	BS3900-E6 0 (2 mm crosshatch)	class 0
	DIN 53151 (2 mm crosshatch)	GT0 > 95%
Erichsen	BS3900-E4	Pass >6mm
Cupping		
Hardness	BS3900-E2 (2000gr)	Pass - no penetration to substrate
	ASTM D 3363/74 (pencil)	Pass H - 2H
Impact	BS3900-E3	Pass 2.5 Joule D/R
	UNI 8901	Pass 25 Kg x cm D/R

Chemical and Durability Tests:

Whilst maintaining the general protective and anti-corrosive properties of powder coatings, aluminium and copper/bronze metallic finishes, when submitted to the listed tests, will rapidly show a loss of metallic aspect.

Salt spray	ASTM B117 35°C (500 hours)	Pass - no corrosion creep more than 3mm from scribe
Cyclic humidity	BS3900-F2 (500 hours)	Pass - no blistering or loss of gloss.
Exterior durability		Excellent - non chalking, slight loss of gloss after 12 months continuous exposure but no film breakdown or reduction in protective properties.
Colour stability at		Excellent for continuous exposure up to

Pretreatment: Aluminium, Steel or Zintec substrates to be coated must be clean and free from grease.
Iron phosphate and particularly lightweight zinc phosphating of ferrous metals improves corrosion resistance.
Aluminium substrates may require a chromate conversion coating.

Applications: **Interpon 200 RPU AS** powders can be applied by manual or automatic electrostatic spray equipment. Tribostatic spray grades are available for some finishes on request. The actual application parameters must be adapted and adjusted depending on the type of components and with each powder batch in order to give a finish in accordance with our colour standard.
The use of direct box feed equipment may not reproduce fully the finish of our colour standard. To ensure powder homogeneity, empty the boxes totally into the tray or feed hopper. Only one spray run and one batch should be used for components that are going to be simultaneously visible following assembly/fabrication. For manual application it is essential to ensure that an even film thickness is applied.

We recommend the use of flat jet spray nozzles for all metallic and metallic-effects products.

This product may be recovered and recycled on most common equipment subject to normal controls on ratios of recycled to virgin powder. Akzo Nobel should be consulted for specific recommendations on recycle ratios for this product, but in any circumstances the recycled virgin ratio should not exceed 1/5.

Further we recommend to apply a film thickness between 60 – 80 µm for having a smooth finishing.

Additional Informations: Bright aluminium finish grades of **Interpon RPU AS** are susceptible to scratching and finger marking. Using the **Interpon MR** technology (for the products where this technology is applicable and specifically indicated) can allow a higher cleanability in case of fingerprint. However, protection by use of a clear polyester topcoat is recommended when the coated article is to be subjected to physical or environmental damage. When overcoating, it is recommended that the powder is "green" or partially cured (at about 160°C) to maximise intercoat adhesion. The topcoat should ideally be applied within 2 hours of the metallic coating, and gloves should be worn when handling the metallic coated articles. For further details on the use of metallic powder coatings please contact Akzo Nobel.

Interpon 200 RPU AS polyurethane powders are available in a wide range of colours and gloss levels to suit different applications.

Safety Precautions: This product is intended for use only by professional applicators in industrial environments and should not be used without reference to the relevant health and safety data sheet which Akzo Nobel has provided to its customer. If for any reason a copy of the relevant health and safety data sheet is not immediately available the user should contact Akzo Nobel to obtain a copy before using the product. Minimum safety precautions in dealing with all powder coatings are as follows: All dusts are respiratory irritants. Therefore, inhalation of the dust or of the vapours resulting from the cure should be avoided. Take steps to prevent skin contact, but should contact occur, wash skin with soap and water. In case of eye contact flush immediately with clean water and seek medical advice. Dust clouds of any finely divided organic material can be ignited with an electric spark or open flame. Dust and powder should not be allowed to build up on surfaces or ledges. Dust collection equipment should be used which has provision for adequate explosion release. All equipment should be electrically earthed to prevent build up of static. Users are recommended to follow the guidelines laid down in the "Code of Safe Practices" issued by the British Coatings Federation, copies of which are available on request.

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

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