

Product Data Sheet

AkzoNobel Powder Coatings

Interpon ReFlex PA020G White

Product Description

PA020G is a polyurethane based powder coating, formulated without TGIC and is designed for exterior exposure offering excellent light and weather resistance from a single coat finish. PA020G is part of the Interpon ReFlex range of powder coatings with high total reflectance, designed specifically for the lighting market.

Powder Properties

Chemical type	Polyurethane
Appearance	Smooth Matt
Particle Size	Suitable for electrostatic spray
Specific gravity	1.74 ± 0.05 g/cm ³
Film Thickness	75 – 100 microns
Coverage	7.7 m ² /kg @ 75 microns
Storage	Dry cool conditions below 25°C (open boxes must be resealed)
Shelf life	12 months
Stoving schedule (object temperature)	15 – 20 minutes @ 205°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	Cold Rolled Steel
Pretreatment	B1000 Iron phosphate
Film Thickness	75 – 100 microns
Stoving Schedule	15 minutes at 205°C

Mechanical Tests

	[test]	[results]
Flexibility	ASTM D522	12 mm
Adhesion	ASTM D3359	100%
Impact (direct)	ASTM D2794	60 kgcm
Gloss (@60°)	ISO 2813	85 ± 5
Hardness (scratch)	ASTM D3363	2H
Total reflectance	DIN 5036-3	See additional information section below
Reflectance Class	DIN EN 16268	A

Chemical and Durability Tests

Salt Spray (600 hours)	ASTM B117	No corrosion creep >2mm from scribe. No blistering.
Humidity (1000 hours)	ASTM D2247	No blistering or loss of gloss

Pre-treatment

Steel surfaces to be coated must be clean and free from grease, mill scale and rust. For maximum protection, it is essential to pre-treat components prior to the application of PA020G. Iron phosphate and zinc phosphate pre-treatment of ferrous substrates improve corrosion resistance. Aluminium substrates may require a chromate conversion coating

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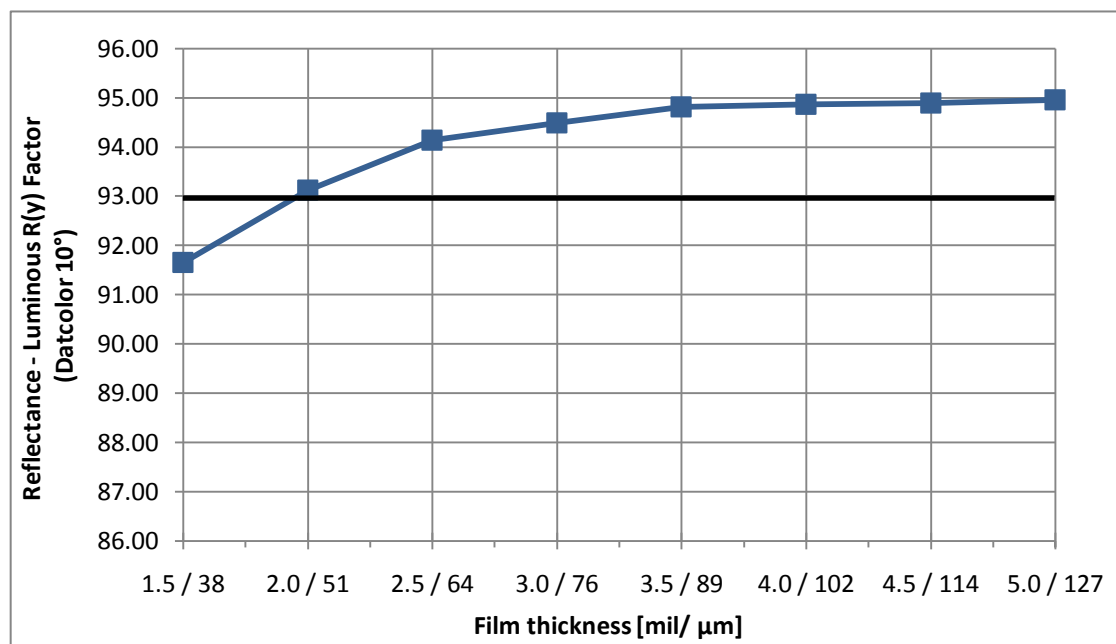
Application

PA020G can be applied using manual or automatic electrostatic spray equipment. It is recommended, that for consistent application and appearance, the product be fluidized during application. Unused powder can be reclaimed using suitable equipment and recycled through the coating system.

Additional Information

After 12 months Florida exposure, PA020G may exhibit slight gloss loss but no chalking, film breakdown or reduction in protective properties are observed.

Total reflectance variation with film thickness is shown in the graph below. Reflectivity is measured using a Datacolor spectrophotometer as per BS EN 16268 but using illuminant D65 and a 10° observer.



Safety Precautions

Please consult the Material Safety Datasheet (MSDS).

Disclaimer

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 advices 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.

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