

Product Data Sheet

AkzoNobel Powder Coatings

Interpon 600

Product Description

Interpon 610 is a series of polyester based powder coatings designed for the exterior environment, offering excellent light and weather resistance from a single coat finish on a variety of substrates. The enhanced heat resistance of Interpon 600 powders makes them ideal for use where colour retention on surfaces exposed to continuous heat is required.

Interpon 610 powders are available in a wide range of colours in gloss, satin, matt, metallic and textured effects and can be custom matched to the user's requirements.

Powder Properties

Chemical type	Polyester – TGIC
Particle Size	Suitable for electrostatic spray
Specific gravity	1.2-1.8 g/cm ³ depending on colour
Storage	Dry cool conditions below 25°C (open boxes must be resealed)
Shelf life	12 months
Stoving schedule (object temperature)	15 minutes at 190°C 10 minutes at 200°C 8 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	Gold Seal polished steel
Pretreatment	Gold Seal lightweight Zinc Phosphate
Film Thickness	50 microns
Cure Schedule (object temperature)	10 minutes at 200°C

Mechanical Tests

Flexibility	ISO 6860 (Conical Mandrel)	Pass 3 mm
Adhesion	ISO 2409 (2mm Crosshatch)	Gt 0
Erichsen Cupping	ISO 1520	Pass 7 mm
Hardness	ISO 1518 (2000g)	Pass - no penetration to substrate
Impact	ISO 6272	50 kgcm

Chemical and Durability Tests

Salt Spray	ISO 7253 (250 hours)	Pass - no corrosion creep more than 2mm from scribe
Cyclic Humidity	ISO 6270-1 (1000 hours)	Pass - no blistering or loss of gloss
Distilled Water Immersion	ISO 2812 (240 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	
Chemical Resistance	Generally excellent resistance to most acids, alkalis and oils at normal temperatures	
Colour Stability at Elevated temperatures	Excellent for continuous exposure up to 150°C.	

Pre-treatment

Aluminium, steel or Zintec surfaces 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.

Application

Interpon 600 powders can be applied by manual or automatic electrostatic spray equipment. Unused powder can be reclaimed using suitable equipment and recycled through the coating system.

Additional Information

Interpon 600HR (High Reactivity) powders are also available in selected grades for use where a lower oven temperature or shorter curing time is required.

Stoving schedule	15 minutes at 160°C
(object temperature)	8 minutes at 180°C
Storage	Dry cool conditions below 25°C
Shelf life	12 months

For further details on powder properties and film performance of Interpon 600HR please contact AkzoNobel.

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.

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