

Product Data Sheet

AkzoNobel Powder Coatings

Interpon 610 CD

Conductive-Dissipative Coatings

Product Description

Interpon 610 CD is a series of polyester based powder coatings, formulated without the use of TGIC, designed for the exterior environment, offering excellent light and weather resistance from a single coat finish on a variety of substrates.

Interpon 610 CD is a range of powder coatings with static dissipative properties. Can be produced in range of colors* like black, grey and in lighter colors (blue, yellow, green, beige). **Interpon 610 CD** have been specifically designed for use in environments where is important to have and antistatic coating to prevent risk of electrostatic discharge.

Powder Properties	Chemical type	Polyester TGIC Free		
	Density (g/cm³)	1.2-1.8 g/cm ³ depending on color and effect		
	Application	Suitable for electrostatic spray		
	Storage	Under dry, cool (≤ 30°C) conditions (open boxes must be resealed)		
	Shelf life	24 months below 30°C		
	Curing schedule	20-40 minutes at 170°C 10-20 minutes at 180°C 8-16 minutes at 200°C		
Test Conditions	al and chemical tests which (unless laboratory conditions and are given for epend upon the circumstances under			
	Substrate	Gold Seal polished	0.5mm steel	
	Pretreatment	Gold Seal lightweight Zinc Phosphate		
	Film Thickness	80 microns		
	Curing Schedule (Object Temperature)	10 minutes at 200°C		
Mechanical Tests	Adhesion	ISO 2409 (2mm crosshatch)	Class 0	
	Flexibility	ISO 1519 (Conical Mandrel)	Pass 5 mm	
	Erichsen Cupping	ISO 1520	≥ 5 mm	
	Impact	ISO 6272	> 30 kg·cm	

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^{*} Carbon is the main route to achieving static dissipative properties in a powder coating, this is the main reason why most anti-static powders are dark. Lighter colors may appear speckled.



Chemical and durability tests

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

The results shown are based on tests which (unless otherwise indicated) have been carried out under laboratory conditions and are given for advice only, actual performance depends upon the circumstances under which the product is used.

Salt Spray (500 hours)	ISO 9227	Pass - no corrosion creep more than 3 mm from scribe	
Exterior Durability	Suitable for outdoor exposure.		
Chemical Resistance	Generally excellent resistance to most acids, alkalis and oils at normal temperatures.		

Pretreatment

Surface preparation depends upon the metal, the type of surface, its conditions and the required performance.

Substrate	Mechanical pretreatment	Chemical pretreatment
Mild steel	Grit Blasting Sa 2.5 in accordance	Degreasing & phosphating followed by passivation, DW rinsing and drying.
Cast steel	with ISO NF EN 8501-1. Roughness: Rz 42-84 μm / Ra 6- 12 μm.	
Electro Zinc steel	Sanding	
Hot dip galvanized steel	Sweeping with a maximum zinc layer thickness reduction of 5 to 10 µm depending on the initial zinc thickness.	Degreasing by phosphating & passivation or primary wash using liquid primer Cromadex 903 (can be substituted by chemical passivation with Cromadex MC245).
Zinc sprayed (gas flame/electrical deposition)	Light sanding/Light sand Blasting	Not recommended

Detailed advice should be sought from the pre-treatment supplier.

Application

Interpon 610 CD powder coatings can be applied by corona electrostatic equipment.

In all application processes the aspect obtained is subject to variation, depending on the method of application (type of gun, nozzle, etc) and the shape/type of component. We recommend that the actual application parameters are adapted and adjusted depending on the type of component and with each powder batch to give a finish in accordance with our color card.

The following procedure is given as a guideline when using these finishes. We recommend the use of flat jet spray nozzles. To ensure powder homogeneity, the complete content of the boxes should be emptied completely into the feed hopper. For manual application it is essential to ensure that an even film thickness is applied, and, in all Instances, sinusoidal gun movements should be avoided.

All powders can show small color 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.

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Bonded products have better application properties than blended products (more stable) but attention should still be paid to line settings 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, etc.), 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 color and gloss.

Recycling	Unused powder can be reclaimed using suitable equipment
	and recycled through the coating system, but a minimum of
	70% virgin powder should be used.

Additional performance

Surface Resistivity

 $10^5 - 10^9 \,\Omega/m^2$

CEI IEC 61340

Post ApplicationContact with Chemical Agents

Contact, even for a short duration with certain household products and chemicals, can cause irreversible changes in the gloss and appearance.

We recommend that a test is carried out on a non-visible area before using these types of products on this coating.

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 customers.

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 fulfil 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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