

Product Data Sheet

AkzoNobel Powder Coatings

Interpon 310

MW031D

Chrome Silver 2

Product Description

Interpon 310 Chrome Silver 2 is a bright metallic powder with a chrome finish. Interpon 310 is designed for the interior decoration of all items which require an excellent chrome effect finish such as metal furniture, shop fittings, shelves and light fittings.

MW031D is a polyester resin based thermo-setting powder coating formulated without TGIC.

Interpon 310 Chrome Silver 2 is intended for interior use only when applied as a single coat. For exterior environments or aggressive interior environments Chrome Silver should be over-coated with the acrylic clearcoat Interpon 410 CZ001D or with the liquid Topcoat 800 clearcoat from Cromadex. Other clear powder coatings such as epoxy-polyester, polyester or polyurethane are not suitable and will not give the same appearance.

Powder Properties

Chemical type	Polyester TGIC free hybrid
Appearance	Chrome effect metallic
Particle Size	Suitable for electrostatic spray
Specific gravity	1.20 g/cm ³
Storage	Dry cool conditions below 25°C (open boxes must be resealed)
Stoving schedule (object temperature)	15 – 30 minutes at 180°C 10 – 25 minutes at 190°C 6 – 20 minutes at 200°C <i>Failure to observe the correct curing conditions may cause differences in colour, gloss and the deterioration of the coating properties</i>

Test Conditions

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.

Substrate	0.5mm steel panels
Pretreatment	Iron phosphate
Application method	Electrostatic Spray
MW031D Thickness	80 ± 5 microns
MW031D Curing	15 minutes at 180°C (as primer for complete system)
Topcoat	CZ001D (for 2 layer system)
Topcoat Thickness	80 ± 5 microns
Topcoat Curing	20 minutes at 170°C

Mechanical Tests

Adhesion	ISO2409 (2mm crosshatch)	GT0 (MW031D) GT0 (system)
Erichsen Cupping	ISO1520	Pass 6mm (MW031D) Pass 6mm (system)
Impact	ISO6272-1	Pass 50 kgcm (MW031D)
Flexibility	ISO1519	Pass 3mm (MW031D) Pass 3mm (system)

Chemical tests

		MW031D single coat	2 coat System
Salt Spray (240 hours)	ISO 7253	No corrosion creep >2mm from scribe. Class 0 Loss of Chrome effect	No corrosion creep >2mm from scribe. Class 0 No change of visual appearance

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	Humidity (240 hours)	ISO 6270-1	No blistering or loss of Chrome effect	No change of visual appearance
	Florida Natural Weathering		Interior use only	>50% gloss retention after 24 months
Pre-treatment	Aluminium, steel or Zintec surfaces must be clean and free from grease. Iron phosphate and lightweight zinc phosphating of ferrous metals improves corrosion resistance. Aluminium surfaces may require a suitable chromate conversion, chrome free pre-treatment or flash anodising for certain applications. Galvanised steel may require zinc or chromate conversion or sweep blasting. Detailed advice should be sought from the pre-treatment supplier.			
Application	<p>MW031D can be applied by corona electrostatic or tribostatic equipment. However the aspect obtained by tribostatic equipment may vary when compared to electrostatic application and/or our colour card. In all application processes the aspect obtained is subject to variation, depending on the method of application (type of gun, nozzle, pot etc) and the shape/type of component.</p> <p>We recommend that the actual application parameters are adapted and adjusted depending on the type of component and with each powder batch in order to give a finish in accordance with our colour card. The following procedure is given as a guideline when using these finishes :</p> <p>We recommend the use of flat jet spray nozzles.</p> <p>To ensure powder homogeneity empty the boxes totally into the tray or feed hopper.</p> <p>Only one spray run and one batch of powder should be used for components which are to be used in the same project.</p> <p>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.</p> <p>Recycling Depending of the component being coated - Consult AkzoNobel Technical Support.</p>			
Additional Information	<p>Contact with Chemical Agents Contact, even of 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 these coatings.</p> <p>Exposure to aggressive Environments Due to the high level of metallic particles some finishes are sensitive to aggressive environments (i.e. humid, or areas in which wear by rubbing occurs). For protection overcoating with a clear coat is recommended. When using a topcoat the application should be done immediately on the same site. The maximum allowable period between coats is 2 hours. For further information please contact AkzoNobel.</p>			
Safety Precautions	Please consult the Material Safety Datasheet (MSDS)			

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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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