

Product Data Sheet

AkzoNobel Powder Coatings

Interpon 810 YZ500D

Product Description

YZ500D is a smooth, transparent, glossy high durability powder coating, formulated without TGIC. It is designed for exterior exposure and, when tested against the most severe specifications, gives significantly improved gloss retention and resistance to colour change.

YZ500D is designed can be used as a high performance topcoat clear for a a variety of Interpon metallic effect powder coatings.

Powder Properties

Chemical type	Polyester TGIC-free
Particle Size	Suitable for electrostatic spray
Specific gravity	1.14 - 1.1.24 g/cm ³
Storage	Dry cool conditions below 30°C
Shelf life	24 months
Stoving schedule (object temperature)	15 minutes at 180°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	Bonder LH Iron phosphated steel panels Boner 722 chromated aluminium panels
Pretreatment	Chromate conversion
Film Thickness	60 microns
Stoving Schedule (object temperature)	15 minutes at 180°C

Mechanical Tests

Adhesion (2mm Crosshatch)	ISO 2409	Gt0
Impact (reverse)	ASTM D 2794	Pass 10 inlbs
Gloss	>80%	

Chemical and Durability Tests

Acetic Acid Salt Spray (240 hours)	ISO 9227	No corrosion creep > 2 mm from scribe
Humidity Test (240 hours)	ISO 6270-2	No blistering or loss of gloss
Exterior Durability	36 months Florida	>50% gloss retention
Accelerated Weathering	QUV-B (600 hours)	>50% gloss retention

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Pre-treatment

For maximum protection it is essential to pretreat components for exterior use prior to the application of YZ500D. Aluminium components should receive a full multi-stage chromate conversion coating to clean and condition the substrate. Detailed advice should be sought from the pretreatment supplier. Galvanised steel also requires multi-stage pretreatment using either zinc phosphate or chromate conversion.

Degassing of galvanised steel prior to powder application is considered mandatory - follow the procedural advice of the pretreatment supplier.

YZ500D may also be used on other substrates (eg. mild steel fabrications) for internal applications; nevertheless zinc phosphate pretreatment is regarded as essential.

If YZ500D is being used as a clear topcoat over another Interpon powder basecoat then care should be taken to ensure that the basecoat is handled correctly, preferably using clean, lint free gloves before application of YZ500D. We advise following the advice given in the technical datasheet for the basecoat.

Application

YZ500D can be applied by manual or automatic electrostatic spray equipment. Unused powder can be reclaimed using suitable equipment and recycled through the coating system.

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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