

Product Data Sheet

AkzoNobel Powder Coatings

Interpon EC

Product Description

Interpon EC is a high quality powder formulated to have excellent anti-graffiti properties with good aesthetic appearance. Interpon EC is suitable for outdoor applications and is available in a range of colors. Interpon EC is also available as a transparent clear and can be custom matched to user's requirements.

Powder Properties

Chemical type	Polyurethane
Gloss (60°)	50-90
Particle Size	Suitable for electrostatic spray
Specific gravity	1.2-1.9 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)	20 minutes at 190°C (object temperature) 15 minutes at 200°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	0.6mm degreased steel (Mechanical tests)
Pretreatment	Zn/Mn Phosphate (Neutral Salt spray) or Chromated Aluminium (Acetic acid salt spray)
Film Thickness	60 - 70 microns
Stoving Schedule	20 minutes at 190°C (object temperature)

Mechanical Tests

Flexibility (Cylindrical Mandrel)	ISO 1516	Pass 10 mm*
Adhesion (2mm Crosshatch)	ISO 2409	Gt 0
Pull off test	ISO 4624	>2.5 Nm
Erichsen Cupping	ISO 1520	>3 mm*
Pencil Hardness	ASTM D 3363	H-2H
Impact (reverse)	ISO 6272	15 kgcm*
Buchholz	ISO 2815	>80

(*) No delamination, some cracking

Chemical and Durability Tests

Acetic Acid Salt Spray (500 hours)	ISO 9227	Creep <4mm from scribe
Neutral Salt Spray (750 hours)	ISO 7253	Creep <4mm from scribe
Cyclic Humidity (1000 hours)	ISO 6270-1	Pass - no blistering or loss and creep <1mm from scribe
Accelerated Weathering (1000 hours)	ISO 11341	Gloss retention >50%. Colour variation dependent on initial colour

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Anti-graffiti properties

Interpon EC has been developed to satisfy the main specifications available in the railways, subways and urban furniture markets. In general, the anti-graffiti properties depend upon many factors such as:

- Color and type of finishes of the coatings.
- Procedure used to evaluate the anti-graffiti property, particularly:
 - Method of application of the graffiti.
 - Method of removal of the graffiti.
 - Type of graffiti.
 - Conditioning (temperature and timing) of the coated sheets both after the application and after the removal of the graffiti
 - Type of remover used.
 - Procedure to remove the graffiti

For this reason please contact AkzoNobel for any clarifications.

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 EC 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.

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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