

Product Data Sheet

AkzoNobel Powder Coatings

Interpon 700 AM

Product Description

Interpon 700 AM is a series of epoxy polyester hybrid powder coatings offering improved colour, UV-light and heat stability compared to the Interpon 100 range of pure epoxies, whilst maintaining an optimum combination of decorative and protective qualities in combination with specific antimicrobial activity.

Interpon 700 AM powders are available in the full range of colours in gloss, reduced gloss, textured, metallics and other special finishes or can be custom matched to the user's requirements.

Powder Properties

Chemical type	Epoxy Polyester		
Particle Size	Suitable for electrostatic spray		
Specific gravity	1.2-1.7 g/cm³ depending on colour		
Storage	Dry cool conditions below 30°C		
Shelf life	24 months		
Stoving schedule (a)	15 minutes at 180°C		
(object temperature)	10 minutes at 190°C		
	6 minutes at 200°C		

⁽a) For full matt powders add 5 minutes to times shown. For high reactivity (HR) powders see overleaf.

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)	6 minutes at 200°C	

Mechanical Tests

Adhesion (2mm Crosshatch)	ISO 2409	Gt0
Erichsen Cupping	ISO1520	Pass >7mm
Hardness	ISO 1518	Pass - no penetration to substrate
(2000gms)		
Impact	BS3900-E3	Pass 2.5mm
Flexibility	ISO6860	Pass 3mm
(Conical Mandrel)		
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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	Some chalking after 6-12 months continuous outdoor exposure but less than pure epoxies. Protective properties not impaired. Not recommended for outdoor applications.		
Chemical Resistance	Generally good resistance to temperatures.	most acids and alkalis and oils at normal	

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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 700 AM 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 700 AM in conjunction with BioCote Ltd ® has been tested for antimicrobial efficacy in accordance with ISO 22196: 2011 and exhibited a minimum of 95% and up to 99.99% reduction in the population of Escheria Coli and Methicillin Resistant Staphylococcus Aureus (MRSA). Testing was carried out by an independent laboratory and is classified as 'microbiological results satisfactory'. BioCote silver ion technology has been proven effective against the following bacteria in Laboratory conditions:

Multi Drug Resistant Bacteria Bacteria

ESBL Erischeria coli Acinetobacter baumanii

CRE Klebsiella pneumonia

MRSA Methicillin Resistant Staphylococcus

Campylobacter coli

Aureus Campylobacter jejuni

VRE Vancomycin Resistant Enterococcus Clostridium difficile (excluding spore form)

Escherichia coli O157 Enterbacter aerogenes Enterococcus faecalis Legionella pneumophila Listeria monocytogenes Pseudomonas auruginosa Salmonella enteritidis

Salmonella typhimurium

Shigella spp.

Staphylococcus aureus Staphylococcus epidermidis Streptococcus faecalis

Interpon 700 AM contains BioCote silver phosphate glass antimicrobial technology to preserve the coating surface and prevent degradation caused by microbial growth once applied to the intended substrate.

Interpon 700 AM (High Reactivity) powders are also available for use where a lower stoving temperature or shorter curing schedule 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 6 months

For further details on powder properties and film performance of Interpon 700 AMHR please contact AkzoNobel.

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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