Product Data Sheet

AkzoNobel Powder Coatings

Interpon 620 AM
OA541E
Matt Global White

Product Description

OA541E is a Polyester based powder coating, formulated without the use of TGIC, offering the benefits of **Interpon 620** in combination with specific antimicrobial activity.

OA541E has been specifically designed for use on ceiling tiles and as such gives a uniform colour across varying film thickness to avoid a mismatch of tiles during installation.

Powder Properties

Chemical type	Polyester
Particle Size	Suitable for electrostatic spray
Specific gravity	1,6 – 1,7 g/cm^3
Film Thickness	60 – 70 microns
Storage	Dry cool conditions below 25^{o}C (open boxes must be resealed)
Shelf life	12 months
Sales Code	OA541E
Stoving schedule (object temperature)	15 - 30 minutes at 180^{o}C 8 - 16 minutes at 190^{o}C **Gloss @ 60°** : 17-23% (Q.C specification 17 – 21%)

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	Mechanical tests : Gold Seal Polished steel Chemical & Durability tests : Gold Seal Lightweight Steel
Pretreatment	Zinc Phosphate
Film Thickness	60 – 70 microns
Stoving Schedule	10 minutes at 180°C (object temperature)

Mechanical Tests

	[test]	[results]
Adhesion	ISO 2409 (2 mm crosshatch)	GTO
Flexibility	ISO 6860 (conical mandrel)	4mm
Impact (direct/reverse)	ASTM D2794	25/25 kgcm
Erichsen Cupping	ISO 1520	>5 mm
Hardness (2000g)	ISO 1518	No penetration to substrate

Chemical and Durability Tests

Salt Spray (250 hours)	ASTM B117	No corrosion creep >2mm from scribe. No blistering.
Cyclic Humidity	BS3900-F2	No blistering or loss of gloss
Distilled water immersion	ISO 2182	No blistering or loss of gloss
Chemical Resistance	Generally good resistance to acids, alkalis and oils at room temperature.	
Exterior Durability	Excellent – no chalking slight loss of gloss after 12 months continuous exposure but no film breakdown or reduction in protective properties	

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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 or ferrous metals improved corrosion resistance.
Aluminium substrates may require a chromate conversion coating.

Application

Interpon 620 AM powders can be applied by manual or automatic electrostatic spray equipment. It is recommended that powder film thickness be between 60 – 110 microns.
Unused powder can be reclaimed using suitable equipment and recycled through the coating system.

Additional Information

Interpon 620 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
ESBL Erischeria coli
CRE Klebsiella pneumoniae
MRSA Methicillin Resistant Staphylococcus Aureus
VRE Vancomycin Resistant Enterococcus

Bacteria
Acinetobacter baumanii
Bacilus subtilis
Campylobacter coli
Campylobacter jejuni
Clostridium difficile (excluding spore form)
Escherichia coli O 157
Enterbacter aerogenes
Enterococcus faecalis
Legionella pneumophila
Listeria monocytogenes
Pseudomonas auruginosa
Salmonella enteritidis
Salmonella typhimurium
Shigella spp.
Staphylococcus aureus
Staphylococcus epidermidis
Streptococcus faecalis

Interpon 620 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.

Safety Precautions

Please consult the Material Safety Datasheet (MSDS).

Disclaimer

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