

Product Data Sheet

AkzoNobel Powder Coatings

Interpon 200

Product Description

Interpon 200 is a series of chemically resistant polyurethane powder coatings. **Interpon 200** is designed to offer a high level of scratch and abrasion resistance and is available in a wide colour range. Typical end uses include public transport components, public amenities, furniture and play equipment, infrastructure components, agricultural equipment, transportation equipment and industrial components.

A warrantable grade of **Interpon 200** is available, designed to meet or exceed the durability requirements of AS3715, offering superior exterior durability compared with the Interpon EasyClean series.

Powder Properties*

Chemical type	Polyurethane
Particle size	Suitable for electrostatic spray
Specific gravity	1.2 - 1.7 depending on colours
Storage	Dry cool conditions (below 25°C)
Shelf Life	12 months below 25°C
Sales code	P-Series
Stoving Schedule	15 mins at 200°C (Object temperature)

Film properties

Mechanical, chemical and durability tests carried out on chromate conversion coated aluminium panels. All tests were performed on panels coated with 60-80 microns of a gloss finish powder coating stoved for 15 minutes at 200°C (metal temperature).
Reduced gloss finishes may show lower values for mechanical performance.

Mechanical Tests*

Flexibility	(Bend Test) AS1580 402.1	Pass 8mm
Adhesion	(2mm Crosshatch) AS1580 408.4	Classification 1 maximum
Erichsen Cupping	ISO 1520	Pass 5mm
Pencil Hardness	AS1580 405.1	F – minimum
Reverse Impact Resistance	AS3715 Section 2.5.8	Pass 2.5Nm

Chemical Durability Tests*

Salt Spray	AS3715 Section 2.5.10	Pass at 1000 hrs -no corrosion area more than 2mm from scribe
Humidity Resistance	AS3715 Section 2.5.7	Pass at 1000 hrs - no blistering
Chemical Resistance	Generally very good resistance to acids, alkalis and oils at normal temperatures.	
Exterior durability	Pass AS3715 after 12 months continuous exposure with no film breakdown or reduction in protective properties.	

Pre-treatment

For optimum coating performance the following pre-treatment is recommended prior to the application of Interpon 200. The pre-treatment should be used in accordance with the supplier's recommendations.

A. Aluminium	Multistage chrome chromate or chrome phosphate
B. Galvanised Steel	Multistage zinc phosphate or chromate
C. Steel	Multistage zinc or iron phosphate

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Application

Interpon 200 can be applied by manual or automatic electrostatic spray equipment, however for consistency of finish automatic equipment is preferred. Unused powder can be reclaimed using suitable equipment and recycled through the coating system.

Due to the superior flow of **Interpon 200** a fast heat up rate is recommended. Slow heat up rates could cause sagging and running off the edges. For large and heavy components preheating may be advisable.

Please contact your local Akzo Nobel representative or sales office for further advice.

Post Application

For specific processes of post coating such as bending, thermal break, cleaning etc., please inform an Akzo Nobel representative for review and provide guidance or support.

When screen printing or the application of sealants is required, it is strongly recommended to conduct a preliminary trial to confirm material compatibility and ensure the desired performance standards are achieved.

Cleaning Graffiti

Graffiti on **Interpon 200** can be removed by cleaning with Methylated Spirits or Methyl Isobutyl Ketone. Other materials can be used but should be tested on a small area first.

Additional Information

Product performance warranties are available with the **Interpon 200** range through accredited applicators. For further information on the available warranties and the applicable terms and conditions, please contact your local AkzoNobel sales office.

Interpon powder coatings have a policy of not using lead or other heavy metal pigments in our range of powder coatings.

Interpon 200 is based on polyurethane chemistry which releases a blocking agent during the curing process.

This blocking agent will cause slight fuming and requires increased levels of oven venting. See details in the **Interpon 200** MSDS.

White and pastel shades are more prone to over bake yellowing compared to standard polyester powder coatings. Oven temperatures should not exceed 220oC.

Safety Precautions

This product is intended for use only by professional applicators in industrial environments and should not be used without reference to the relevant health and safety data sheet, which AkzoNobel has provided to its customer. If for any reason a copy of the relevant health and safety data sheet is not immediately available the user should contact AkzoNobel to obtain a copy before using the product. Minimum safety precautions in dealing with all powder coatings are as follows. All dusts are respiratory irritants. Therefore, inhalation of the dust or of the vapors resulting from the cure should be avoided. Take steps to prevent skin contact, but should contact occur, wash skin with soap and water. In case of eye contact flush immediately with clean water and seek medical advice. Dust clouds of any finely divided organic material can be ignited with an electric spark or open flame. Dust and powder should not be allowed to build up on surfaces or ledges. Dust collection equipment should be used which has provision for adequate explosion release. All equipment should be electrically earthed to prevent build up of static. Users are recommended to follow the guidelines laid down in AS3754:1990, "Safe Application of Powder Coatings by Electrostatic Spraying".

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

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* Typical minimum specifications. Performance may vary slightly between individual products.

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