Product Data Sheet

AkzoNobel Powder Coatings
Interpon A4790
CZ203K

Product Description

Interpon A4790 offers a wide range of high quality powder coatings that will protect, enhance and decorate automotive alloy wheels. Choose from a specially formulated range of primers, basecoats and clearcoats for the best in total systems performance. The **Interpon A4790** range of powders will give you the lasting beauty of a Class A automotive finish while providing the ultimate in protection from bad road conditions. The superior performance and ease-of-use of **A4790** powders result in increased production efficiencies and reduced rework rates which is essential to your business.
.

Powder Properties

Chemical type	Acrylic-Polyester hybrid
Area of usage	Automotive wheels
Appearance	Smooth, matt
Colour	Clear
Gloss (60°)	13 ± 5 GU
Density (g/cm³)	1,15 ± 0,05
Stoving schedule	10 minutes at 200°C (time at object temperature)
Application	electrostatic
Storage stability	Under dry, cool (< 25°C) conditions, at least 6 months from production date

Test Conditions

The results 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	Aluminium
Pretreatment	Bonder (722) chromate
Film Thickness	80 ± 20 µm
Cure Schedule	10 minutes at 200°C

Mechanical Tests

Adhesion	ASTM D 3359	No peeling
Pencil Hardness	ASTM D 3363	Mitsubishi H, no scratch
Flexibility	ASTM D 522(Conical Mandrel)	10 mm

Corrosion Tests

Salt Spray	ASTM B 117	1000 h corrosion creep < 2 mm from scribe
Humidity Test	ASTM D 1735	240 h no blistering
Acid Resistance	5% Acetic acid	24 h, no change
Alkali Resistance	5% NaOH	24 h, no change

Exterior Durability

Artificial Testing	SAE J2527	2500 KJ Xenon Arc (>50% gloss retention)

Pre-treatment

Aluminium surfaces to be coated must be clean and free from grease. For maximum protection it is essential to pre-treat components prior to the application of **Interpon A4790**. OEM aluminum wheels, require a non-chromate conversion coating prior to application of **Interpon A4790**.

Interpon A4790
CZ203K

Application	**Interpon A4790** powder coatings can be applied by manual or automatic electrostatic spray equipment using the recommended application parameters given below: - voltage 70 – 90 kV (reduced voltage is recommended when the product is used as topcoat in a multilayer system). - standard distance between gun and substrate 15 – 25 cm. It can be necessary to change the distance depending on the shape of the part. It is recommended that for consistent application and appearance product be fluidized during application. Unused powder can be reclaimed using suitable equipment and recycled through the coating system Over 80 % of total paint area has to be covered with average film thickness and excessive film thickness may cause the degradation. In the case of the flame type curing oven gas used as a heat source, can reduce the incomplete combustion products, colors fade and re-coating properties depending on the concentration of acidic components in the oven. If even an indirect hot air drying above ingredients are introduced so that the same problem occurs, you may need to check periodically the status of the heat exchanger.
Additional information	Products with different codes should not be mixed even if same colour and gloss. Follow fully curing schedule; under-curing can affect chemical and physical properties. Store powder coatings under dry cool conditions below 25°C. Use max.30% of recycled powder with virgin powder.
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 Akzo Nobel has provided to its customers.
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.** **Brand names mentioned in this data sheet are trademarks of or are licensed to AkzoNobel**

AkzoNobel Powder Coatings Korea
49,181 Beon-gil, Cheomdan-ro,
Ansan-si, Keongki-do
Korea

T +82 (0)31 488-5757/67
F +82 (0)31 432-2104
www.interpon.com

Interpon A4790 – CZ203K – Issue #2
Issued: 20.01.2015 Revision Date: 15.06.2015