Product Data Sheet

AkzoNobel Powder Coatings
Interpon A1242
AN002D

Product Description

Interpon A1242 powder has an excellent line of coatings for coil springs, and torsion bars essential to the safe performance and comfortable ride of today's car and truck chassis systems. **Interpon A1242**'s single layer systems offer unyielding performance in corrosion and chip resistance balanced with excellent application efficiencies. Our patented dual-layer system for coil springs offers superior corrosion protection and critical chip resistance in both zinc and non-zinc containing primer versions to bring you the most economical and responsible choices in coatings for high performance, high tensile springs.

Powder Properties

Chemical type	Epoxy
Area of usage	Automotive suspension springs
Particle Size	Custom manufactured
Appearance	Smooth
Colour	Black
Gloss (60°)	90 ± 5 GU
Density (g/cm^3)	1,53 ± 0,05
Stoving schedule	15 minutes at 165°C (time at object temperature) 8 minutes at 180°C (time at object temperature)
Application	Electrostatic
Storage Stability	Under dry, cool (<25°C) conditions, at least 12 months from production date

Comments

AN002D is a glossy, black, thermosetting powder coating, exhibiting excellent adhesion, chemical resistance and corrosion protection when applied over a properly prepared metal substrate. **AN002D** is designed for application on automotive suspension springs.

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	Steel panels, aluminium
Pretreatment	Bonder (LH) iron phosphate, Bonder (722) chromate
Film Thickness	60 µm
Cure Schedule	8 minutes at 180°C

Mechanical Tests

Adhesion	DIN EN ISO 2409	Gt 0
Erichsen Cupping	DIN EN ISO 1520	≥ 6 mm
Impact	ASTM D 2794	≥ 20 ip (reverse)

Corrosion Tests

Salt Spray	DIN EN ISO 7253	240 h corrosion creep < 2 mm from scribe
Humidity Test	DIN EN ISO 6270-2	240 h no blistering or loss of gloss

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Exterior Durability	**Artificial Testing**	not for outdoor weathering
	Natural Testing	not for outdoor weathering
Pre-treatment	Steel 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 A1242**. Iron Phosphate and Zinc Phosphate of ferrous metals improve corrosion resistance.	
Application	**Interpon A1242** powders can be applied by manual or automatic electrostatic spray equipment. 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.	
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**	

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Interpon A1242 - AN002D - Issue #2
Issued: 12.03.2014 Revision Date: 21.08.2015