Product Data Sheet

AkzoNobel Powder Coatings
Interpon MetaPrep™

Product Description

Interpon MetaPrep™ is a powder coating designed as a barrier primer and surfacer for a variety of metal substrates. Interpon MetaPrep™ is especially suited for porous metal substrates such as hot dipped galvanized steel and alloy castings. Pre-treated substrates are normally coated with 50 to 70 microns of Interpon MetaPrep™. This coating offers excellent flow, chemical and salt spray resistance, and resistance to mechanical damage.

Interpon MetaPrep™ is designed to be over coated with an Interpon powder coating topcoat such as Interpon TC, Interpon D1000 Excel™ or Interpon 700 (for internal applications) to provide enhanced corrosion performance. When cured as per the recommended stoving schedule, Interpon MetaPrep™ typically displays excellent intercoat adhesion properties with a variety of powder coatings.

Interpon MetaPrep™ is suitable for use as a primer for a variety of liquid topcoats, however it is recommended that pre-qualification tests for intercoat adhesion be carried out prior to use.

Powder Properties*

Chemical type	Epoxy-Polyester
Particle size	Suitable for electrostatic spray
Specific gravity	1.68 +/- 0.02
Storage	Dry cool conditions (below 25ºC)
Shelf Life	12 months
Sales code	EL286A (Interpon MetaPrep™ Grey)
Stoving Schedule	(the minimum times represent green cure only) 12 - 20 mins at 160°C or 10 - 15 mins at 170°C or 6 - 12 mins at 190°C or 2 - 10 mins at 200°C (object temperature)

Test Conditions

The results shown below are based on mechanical and chemical tests carried out on a two-coat system (primer + Interpon D1000 polyester) under laboratory conditions and are given for guidance only. Actual product performance will depend upon the circumstances under which the product is used.

Substrate	Zinc phosphate coated steel panels
Film Thickness	Primer 50-70 microns: Polyester topcoat 60-80 microns
Stoving	Primer, 10 minutes at 200°C (object temperature): Polyester topcoat, 12 minutes at 200°C (object temperature)

Mechanical Tests*

Adhesion	AS 4506 Section 2.7	Classification 0
Pencil Hardness	AS 4506 Section 2.8	F - minimum
Reverse Impact Resistance	AS 4506 Section 2.10	Pass 2.0Nm

Chemical Durability Tests*

Salt Spray	ASTM B117	Pass 1000 hours - no corrosion creep more than 2mm from scribe
Humidity Resistance	AS 4506 Section 2.9	Pass 1000 hrs - no blistering or loss of adhesion
Exterior durability	Designed to be used as a primer under suitable powder coating or wet paint topcoats. Exterior durability will then be a function of the topcoat.	

Pre-treatment

For optimum coating performance the following pre-treatment is recommended prior to the application of Interpon MetaPrep™. 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

Interpon MetaPrep™

Application	Interpon MetaPrep™ can be applied by manual or automatic electrostatic spray equipment. Unused and over-sprayed powder coating can be reclaimed and recycled through the coating system. It is recommended to employ the minimum stoving times (green cure) when the parts are to be overcoated immediately. If there is to be a delay in overcoating (up to 24 hours), or if the parts are to be handled, then a full cure is recommended. Handling of parts coated in Interpon MetaPrep™ should be avoided if possible. If handling is unavoidable, clean lint-free gloves must be worn. Under no circumstances should severe over-baking of Interpon MetaPrep™ be allowed as this may lead to intercoat adhesion failure.
Additional Information	AkzoNobel Pty Limited has a policy not to use lead or other heavy metal based pigments in our range of powder coatings. As a result of this policy, the use of bright and deep colours such as Yellows, Oranges and Reds are not recommended for severe outdoor exposure where long-term colour fastness is required.
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 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. Unless otherwise agreed by us in writing, any contract to purchase products referred to in this brochure and any advice which we give in connection with the supply of products are subject to our standard conditions of sale. The information contained in this data sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.** *** Typical minimum specifications. Performance may vary slightly between individual products.** **Brand names mentioned in this data sheet are trademarks of or are licensed to AkzoNobel**

AkzoNobel Coatings Ltd
686 Rosebank Road
Avondale Auckland 1007
New Zealand
Ph: 0800 801 342
Fax: 0800 809 679
Email: salesnz@interpon.com
Web: www.interpon.co.nz

AkzoNobel Pty Limited
51 McIntyre Road
Sunshine Victoria 3020
Australia
Ph: 1800 630 516
Fax: 1800 650 786
Email: salesoz@interpon.com
Web: www.interpon.com.au

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