

Product Datasheet

M3000I



BU Powder Coatings

AkzoNobel
Tomorrow's Answers Today

Interpon 310 Nickel - M3000I-20KgPPF TRA BOND MR H NICKEL

The information given in this datasheet refers to the product **Nickel** and should not be construed as referring to other products within the same range

Product Description

Nickel Interpon 310 is part of Collection Elements specially developed for industrial design. **Interpon 310** is a series of polyester resin based thermo-setting powder coatings, without TGIC. The **Interpon 310** resin system is warning label free. The pigments used in the **Interpon 310** restrict the field of application of this powder coatings class to interior uses. **Interpon 310** is designed for interior decoration : metal furniture, shop fittings, shelves, light fittings...

Powder Properties

| | |
|---|---|
| Chemical type | Polyester |
| Density | 1.24 |
| Storage | Dry, cool conditions |
| Shelf life | 18 months at 30°C 12 months at 35°C |
| Stoving schedule (object temperature) | at 190°C : min 15 mn – max 26 mn at 200°C : min 10 mn – max 20 mn at 210°C : min 8 mn – max 16 mn |

Coating

Aspect Satin sparkle aluminium

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 | 0.5 mm steel |
| Pretreatment | Zinc phosphate |
| Film Thickness | 60 microns |
| Stoving | 15 minutes at 200°C (object temperature) |

Mechanical Tests

| | | |
|-------------------------|------------|----------|
| Flexibility | ISO 1519 | 6mm |
| Adhesion | ISO 2409 | Gt 0 |
| Impact | ISO 6272-1 | 1kg 0.5m |
| Erichsen Cupping | ISO 1520 | >6 mm |

Chemical and Durability Tests:

| | | |
|----------------------------|----------|--|
| Salt Spray | ISO 7253 | 250 hr pass <i>Note: test only relates to corrosion resistance</i> |
| Constant Humidity | ISO 6270 | 1000 hr pass <i>Note: test only relates to corrosion resistance</i> |
| Chemical Resistance | | See Post Application |

Pretreatment

Aluminium, steel or Zintec surfaces must be clean and free from grease.
Iron phosphate and light weight zinc phosphating of ferrous metals improves corrosion resistance
Aluminium surfaces may require a suitable chromate conversion, chrome free pretreatment or flash anodizing for certain applications.

Galvanised steel may require zinc or chromate conversion or sweep blasting
Detailed advice should be sought from the pretreatment supplier

Recommended film thickness

60 – 80 microns

Interpon
powder coatings
EVERY COLOR IS GREEN

| | |
|---------------------------|---|
| Application | <p>Nickel can be applied by corona electrostatic or tribostatic equipment. However the aspect obtained by tribostatic equipment may vary when compared to electrostatic application and/or our colour card.</p> <p>In all application processes the aspect obtained is subject to variation depending on the method of application (type of gun, nozzle, pot etc.) and the shape/type of component. We recommend that the actual application parameters are adapted and adjusted depending on the type of component and with each powder batch in order to give a finish in accordance with the colour card.</p> <p>The following procedure is given as a guideline when using these finishes: We recommend the use of flat jet spray nozzles. To ensure powder homogeneity empty the boxes totally into the tray or feed hopper. Only one spray run and one batch of powder should be used for components which are to be used in the same project. For manual application it is essential to ensure that an even film thickness is applied and in all instances sinusoidal gun movements should be avoided.</p> <p>Recycling Possible up to 30% of reclaimed powder. Panels should be sprayed to ensure continuity of finish</p> |
| Post Application | <p>Contact with Chemical Agents Contact, even for a short duration with certain household products and chemicals, can cause irreversible changes in the gloss and appearance. We recommend that a test is carried out on a non-visible area before using these types of products on this coating. This finish is sensitive to aggressive environments.</p> <p>Exposure to Aggressive Environments The presence of leafing metal particles makes this coating sensitive to aggressive environments (steam, areas of high humidity) and sensitive to scratching and scuffing. In these instances protection by overcoating with a clearcoat is recommended. When using a topcoat the application should be done immediately on the same site. The maximum allowable time between coats is 2 hours. For further information please contact AkzoNobel.</p> |
| Safety Precautions | Please consult the Material Safety Datasheet (PC010) |

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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 advice 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.

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