

Product Datasheet



BU Powder Coatings Interpon HT

AkzoNobel
Tomorrow's Answers Today

Product Description

Interpon HT is a range of exterior durable powder coatings designed for use on surfaces where high temperature resistance and colour retention is required. **Interpon HT** offers excellent hardness, scuff and stain resistance from a single coat finish on a variety of substrates.

Powder properties*

Chemical type	various
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
Stoving Schedule	10-12 mins at 200°C (Object temperature) (Product dependent – please ask your Interpon representative for specific conditions)

Film properties

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 as guidance only. Actual product performance will depend on the circumstances under which the product is used.

All tests are performed on phosphated steel panels coated with 50 microns film of gloss finish powder coating stoved for 12 minutes at 200°C (metal temperature).

Mechanical tests*

Adhesion	(2mm Crosshatch) AS1580 408.4	Classification 1 maximum
Pencil Hardness	AS1580 405.1	F – minimum
Reverse Impact	AS3715 Section 2.5.8	Pass 2.5Nm

Chemical Durability tests

Salt Spray	AS3715 Section 2.5.10	Pass 500 hours - no corrosion creep more than 3mm from scribe
Humidity Resistance	AS3715 Section 2.5.7	Pass at 500 hrs - no blistering or loss of adhesion
Solvent/Chemical Resistance	Generally good resistance to acids, alkalis, and oils at normal temperatures	
Colour Stability	Stable at temperatures up to 200°C as shown in the matrix below*	

500hrs @ 120°C – No change in gloss, ΔE 0.6
100hrs @ 160°C – No change in gloss, ΔE 1.1
12hrs @ 200°C – No change in gloss, ΔE 1.4
1hr @ 300°C – Slight change in gloss, ΔE 2.3

(*Results shown are for Interpon HT Volcano Black Ripple, PN406A)

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Pre-treatment

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

Application

Interpon HT powder coatings can be applied by manual or automatic electrostatic spray equipment. Unused or over-sprayed powder coating can be reclaimed and recycled through the coating system.

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

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.