

# Interpon TC - MA616L ral 9016

**Product Description:**

Interpon TC is a range of polyester based powder coatings, formulated without the use of TGIC. The range offers good light and weather resistance and is capable of either corona or tribostatic application.

Interpon TC powders are available in a wide range of RAL colours in gloss, satin and matt finishes.

**Powder Properties:**

<b>Chemical type</b>	Polyester
<b>Particle size</b>	Suitable for Tribo & Corona application
<b>Specific gravity</b>	1.5±0.2 g/cm <sup>3</sup> (Depending on colour)
<b>Storage</b>	Dry cool conditions below 35°C
<b>Shelf life</b>	12 months
<b>Sales Code</b>	M-series
<b>Stoving schedule</b>	20 minutes at 180°C
(object temperature)	15 minutes at 190°C
	10 minutes at 200°C

**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.

<b>Substrate</b>	Gold Seal lightweight steel
<b>Pretreatment</b>	Zinc phosphate
<b>Film Thickness</b>	60 microns
<b>Stoving</b>	15 minutes at 190°C

**Mechanical Tests:**

<b>Flexibility</b>	BS3900-E11 (Conical mandrel)	Pass 3mm
	ISO 1519/73 (E) (Cylindric mandrel)	Pass 3/16"
<b>Adhesion</b>	ISO 2409 (2 mm crosshatch)	class 0
	DIN 53151 (2 mm crosshatch)	GT0 > 95%
<b>Erichsen</b>	ISO 1520	Pass >7mm
<b>Cupping</b>		
<b>Hardness</b>	ISO 2815 (Buchholz)	> 80
	ASTM D 3363/74 (pencil)	Pass H – 2H
<b>Impact</b>	ECCA T5	Pass 4 Joule D/R
	UNI 8901	Pass 40 Kg x cm D/R

**Chemical and Durability Tests:**

Whilst maintaining the general protective and anti-corrosive properties of powder coatings, aluminium and copper/bronze metallic finishes, when submitted to the listed tests, will rapidly show a loss of metallic aspect.

<b>Salt Spray</b>	ISO7253 (500 hours)	Pass - no corrosion creep more than 3mm from scribe.
<b>Cyclic Humidity</b>	DIN 50017 (1000 hours)	Pass - no blistering or loss of gloss.
<b>Chemical Resistance</b>		Generally good resistance to diluted acids and alkalis or oils at normal temperatures.
<b>Accelerated Weathering Test</b>	ASTM G53-93 (313nm lamp, 55°C 4 hours UV/ 4 hours condensation cycle)	50% Gloss retention after 200hours

**Pretreatment:**

Aluminium, Steel or Zintec surfaces to be coated must be clean and free from grease. Iron phosphate and particularly lightweight zinc phosphating of ferrous metals improves corrosion resistance.

Aluminium substrates may require a chromate conversion coating.

**Application:**

**Interpon TC** powders can be applied by manual or automatic electrostatic or tribocharging spray equipment.

It is recommended that powder coating is applied to a thickness of between 60-110 microns.

Unused powder can be reclaimed using suitable equipment and recycled through the coating system. For the metallics we suggest to avoid any recycling of powder. For "special effect" any variation in application (tribo / corona; voltage) can bring to differences in final finish. The actual application parameters must be adapted and adjusted depending on the type of components and with each powder batch in order to give a finish in accordance with our colour standard.

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**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 customer. If for any reason a copy of the relevant health and safety data sheet is not immediately available the user should contact Akzo Nobel 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 vapours 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 the "Code of Safe Practices" issued by the British Coatings Federation, copies of which are available on request.

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**Disclaimer:**

The information given in this sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this 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. Whilst we endeavour to ensure that all advice we give about the product (whether in this sheet or otherwise) is correct we have no control over either the quality or condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of the use of the product. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.