

## **Product Data Sheet**

## AkzoNobel Powder Coatings

Interpon PZ 790

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Product Description	protection of mild steel. Int	terpon PZ 790 has been des nd D2000 ranges In this data	zinc which is designed to give enhanced corrosion signed to be over-coated with a powder topcoats a sheet the Interpon PZ 790 over-coated with a	
Powder Properties*	Chemical type	Thermosetting epoxy,	rich in zinc	
	Appearance	Grey Metallic, Slightly		
	Particle size	Suitable for electrostatic spray		
	Specific gravity	1.80-2.20 g/cm <sup>3</sup>		
	Storage	Dry cool conditions be	low 30 oC	
	Shelf life	12 months		
	Stoving schedule (object temperature)	12 – 30 minutes at 130		
		Final Full Cure 12 – 23		
		8 – 17 minutes at 170°	-	
		2 – 8 minutes at 200°C		
		1.5 – 5.5 minutes at 22	20°C	
Test Conditions		mechanical and chemical tests which (unless otherwise indicated) have been carried out under laboratory conditions I product performance will depend upon the circumstances under which the product is used. 0.5mm Steel Cold trichloroethylene degreasing 60 – 80 microns 8 minutes at 200oC (Interpon PZ 790 primer alone) 2 minutes at 200oC (when used as a primer for Interpon PZ 790 system) Interpon D1036 (Ral 9010)		
Mechanical Tests	Flexibility	ISO 1519 (Cylindrical Mandrel) ISO 6860 (Conical Mandrel)	Pass 4 mm (PZ 790 mono-coat) Pass 5 mm (System) No Cracking (PZ 790 mono-coat)	
	Adhesion	(Conical Mandrel) ISO 2409	No Cracking (System) Gt0 (PZ790 mono-coat)	
	Adhesion	(2mm Crosshatch)	Gt0 (System)	
	Erichsen Cupping	ÌSO 1520	Pass 8 mm (PZ790 mono-coat) Pass 6 mm (System)	
	Impact	ISO 6272	Pass 0.5 kg.m (PZ 790 mono-coat) Pass 0.5 kg.m (System)	
Corrosion Tests on	The Internon P7 790 s	vstem provides excellent	protection against corrosion on the surface to	
Mild Steel	which it is applied. How preparation before coa the coating system to thas occurred but this w PZ 790 considerably lin Neutral Salt Spray	vever, the efficiency of thi ting and the topcoat appli he substrate, there may b vill not affect the adhesion mits the extent of spread SO 9227 Resu	s protection depends on the surface, its ied. If there is penetrating damage through be localised signs ofcorrosion where damage of the film to the adjacent surface. Interpon of corrosion in the event of coating damage. ults Detailed in Table 1 of Appendix ults Detailed in Table 2 of Appendix	

Pretreatment	free ferrous metal surface upon the type of surface against corrosion the foll <b>Grit blasting</b> - To at least SA 2.5 in ac - roughness equivalent to n°3 LCA-CEA, in accord and/or <b>Degreasing &amp; Phospha</b> - Followed by passivation	ccordance with ISO 8501.1, 1998 (F) ο B9a, B10b, or B10a (Rz 35-65 μm; Ra 6 - 10 μm) using Rutogest ance with NFE 05051 (1981)		
Application	Interpon PZ 790 can be applied by manual or automatic, electrostatic spray equipment. Tribo application is not recommended. The application conditions given below are for information only:			
	Fluidizing air pressure Transport air pressure Recommended voltage	1.5kg/cm2 initially then 1kg/cm2 0.5 to 0.8 kg/cm 65 to 70kV		
	<ul> <li>Reclaiming Powder:</li> <li>Trials, with suitable recycling equipment, must be carried out before commencing production. Attention should be paid to the ratio of new powder, a minimum of 80% must be used. Gun nozzles must be cleaned every 30 minutes.</li> <li>Interpon PZ 790 should be cured, or at least gelled, using the recommended stoving schedules, before application of the topcoat. The object temperature must not be below 110oC or above 220oC. The primer should be cured in a convection oven, optionally with infra-red heaters, with air temperature not exceeding 220°C.</li> <li>Note: Failure to comply with the recommended curing conditions may affect the adhesion of the topcoat and cause degradation of the coating properties of the system. Parts coated with Interpon PZ 790 should not be handled if possible. If handling is unavoidable, clean lint-free gloves must be worn</li> </ul>			
Top Coat Application	Interpon PZ 790 should be over-coated on the same site within 12 hours of applying the primer. If the delay exceeds 12 hours the parts should be heated for 10 minutes at 120-150°C (object temperature). The delay must not exceed 24 hours. Refer to the Product Data Sheet for the powder topcoat for application parameters. To ensure the integrity of the Interpon PZ 790 system, as well as optimum performance, the whole system must be cured in accordance with the recommended curing conditions for the topcoat. Curing should be carried out in a convection oven, optionally with infra-red heaters. There must be a uniform heat distribution inside the oven. Note: Failure to comply with the recommended final curing conditions may cause variations in colour and gloss and cause degradation of the coating properties of the system. A detailed protocol for applying Interpon PZ 790 system is available on request.			
Damage Repair	Any damage to the Interoph PZ 790 system must be repaired as soon as possible.			
	Surface preparation Application	Damaged areas must be clean and free of grease or rust. Dry-sand the area with 600-grade paper down to the substrate. The area must be completely free of dust and cleaned with a non-aggressive solvent before proceeding. For repairs the following two-coat liquid paint system from International Protective Coatings is recommended:		
AkzoNobel Coatings Lto 686 Rosebank Road Avondale Auckland 100 New Zealand Ph: 0800 801 342 Fax: 0800 809 679 Email: <u>salesnz@interpo</u> Web: <u>www.interpon.co.</u>	51 McIntyre Road 7 Sunshine Victoria 3020 Australia Ph: 1800 630 516 Fax: 1800 650 786 n.com Email: salesoz@interpo	on.com		

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	<b>1st Coat</b> : two-pack zinc-rich epoxy primer, Interzinc 72 <b>2nd Coat</b> : two-pack polyurethane topcoat, Interthane 990 Product Data Sheets for these products can be obtained from International Protective Coatings at Felling (Tel: +44 (0) 191 469 6111) or the local office.		
Safety Precautions	Please consult the Material Safety Datasheet (MSDS)		
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.		

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