

Interpon BPP 330

Product Description	<p>Interpon BPP 330 is a barrier protective powder primer that is designed to give enhanced corrosion protection of mild steel and hot dip galvanized steel. Interpon BPP 330 is a pure epoxy primer showing a high cross-linking degree and reinforced with barrier effect agents to provide the best barrier protection. Interpon BPP 330 must be overcoated with a powder or a PU liquid topcoat. Interpon BPP 330 could be used as holding primer with a maximum waiting delay of 1 week.</p>													
Powder Properties	Chemical type	Thermosetting epoxy												
	Particle size	Suitable for electrostatic spray, tribo and corona												
	Specific gravity	1,44 - 1,50 g/cm ³												
	Storage	Dry, cool conditions below 25°C												
	Stoving schedule (object temperature)	15 - 30 minutes at 130°C (green cure) 10 - 14 minutes at 160°C 6 - 10 minutes at 170°C 2 - 4 minutes at 180°C												
Coating	Aspect	Grey, smooth												
	Gloss	65 - 75 units												
	Mechanical tests Tests conditions	<p>The results shown are based on tests which (unless otherwise indicated) have been carried out under laboratory conditions and are given for advice only, actual performance depends upon the circumstances under which the product is used.</p> <table border="0"> <tr> <td>Substrate</td> <td>Steel</td> </tr> <tr> <td>Pre-treatment</td> <td>Iron Phosphating</td> </tr> <tr> <td>Primer thickness ISO2360</td> <td>60 - 80µ</td> </tr> <tr> <td>Curing</td> <td>10 min at 160 °C (BPP 330 alone)</td> </tr> <tr> <td>Powder Topcoat</td> <td>Interpon D1036</td> </tr> <tr> <td>Curing</td> <td>10 min at 200°C (system)</td> </tr> </table>	Substrate	Steel	Pre-treatment	Iron Phosphating	Primer thickness ISO2360	60 - 80µ	Curing	10 min at 160 °C (BPP 330 alone)	Powder Topcoat	Interpon D1036	Curing	10 min at 200°C (system)
Substrate	Steel													
Pre-treatment	Iron Phosphating													
Primer thickness ISO2360	60 - 80µ													
Curing	10 min at 160 °C (BPP 330 alone)													
Powder Topcoat	Interpon D1036													
Curing	10 min at 200°C (system)													
	Adhesion	ISO 2409 Class 0 (BPP 330 alone) Class 0 (system)												
	Erichsen Cupping	ISO 1520 8mm (BPP 330 alone) 6mm (system)												
	Impact	ISO 6272 0,5 kg.m (BPP 330 alone) 0,5 kg.m (system)												
	Flexibility	ISO 1519 (Cylindrical mandrel) 5 mm (BPP 330 alone) 5 mm (system)												
	Corrosion Tests on Mild Steel													
	Tests conditions	The results shown are based on tests which (unless otherwise indicated) have been carried out under laboratory conditions and are given for advice only, actual performance depends upon the circumstances under which the product is used.												
	Natural Salt Spray	ISO 9227 Results are detailed in Table 1 of the Appendix (page 3)												
	Cycle 3 C	Renault D17 1686 Results are detailed in Table 2 of the Appendix (page 3)												
	Corrosion Tests on Hot Dip Galvanized Steel													
	Tests conditions	The results shown are based on tests which (unless otherwise indicated) have been carried out under laboratory conditions and are given for advice only, actual performance depends upon the circumstances under which the product is used.												
	Substrate	Hot Dip Galvanized Steel												
	Pre-treatment	Sweeping												
	Primer thickness ISO2360	60 to 100 µ												
	Curing	10 min at 160 °C (as primer for complete system)												
	Powder Topcoat	Interpon D1036 Ral 6005												
	Curing	10 min at 200°C												
	Natural Salt Spray	ISO 9227 After 720h of Salt Spray exposure, the adhesion (following ISO 2409) is Class 0 – Class 1 on the surface												

Industrial application conditions	Pretreatment	<p>For maximum protection it is essential that Interpon BPP 330 is applied to a clean, dry, oxide-free surface, followed by a recommended Interpon topcoat. Surface preparation depends upon the metal, the type of surface, its condition and the required performance. For good protection against corrosion the following is recommended :</p> <p>Mild Steel</p> <ul style="list-style-type: none"> - Grit blasting to at least SA 2.5 in accordance with ISO 8501.1, 1998(F), roughness equivalent to B9a, B10b or B10a (Ra 6 - 12 μ) using Rugotest n°3 LCA-CEA, in accordance with NFE 05051 (1981) and/or - Degreasing & Phosphating followed by passivation, rinsing DW and drying. <p>Galvanized Steel</p> <ul style="list-style-type: none"> - Sweeping with a maximum zinc layer thickness reduction of 5 to 10 μ depending of the initial zinc thickness or - Degreasing & Chromating or Zn/Zn-Ni Phosphating. <p>A degassing operation just before coating reduces the bubbling phenomenon.</p>
	Recommended film thickness	<p>60 - 100 microns A good protection is linked with the recommended film thickness.</p>
	Application	<p>Interpon BPP 330 can be applied by corona or tribostatic equipment.</p>
	Recycling	<p>Unused powder can be reclaimed using suitable equipment and recycled through the coating system, but a minimum of 70% new powder should be used.</p>
	Curing	<p>Interpon BPP 330 should be partially or fully cured using the recommended stoving schedules before application of the topcoat. For an immediate covering of the primer with the powder topcoat and to provide the best adhesion between them we recommend to prefer the green cure conditions of the primer. For a use as holding primer, Interpon BPP 330 must be baked at 10 min/160°C or 6 min/170°C or 2 min/180°C. The primer should be cured in a convection oven, optionally with/or infra-red heaters, with air temperature not exceeding 180°C. <i>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 BPP 330 should not be handled carefully avoiding any surface contamination.</i></p>
	Topcoat Application	<p>Interpon BPP 330 should ideally be overcoated within 24 hours of application. However the overcoating could be done until 1 week after application and if needed with a preliminary cleaning. To ensure the integrity of the Interpon BPP 330 powder system, as well as optimum performance, the whole system must be cured in accordance with the recommended curing conditions for the topcoat. For overcoating with a PU liquid topcoat, guidance should be sought from Akzo Nobel Powder Coatings.</p>
	Damage repair	<p>Any damage to the Interpon BPP 330 system must be repaired as soon as possible. Surface preparation 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. Application For repairs a PU (2K or 1K) liquid paint is recommended.</p>
Safety Precautions	<p>When using do not eat, drink or smoke. Do not breathe the dust. In case of insufficient ventilation wear suitable respiratory equipment. For further information please refer to the specific product Material Safety Data Sheet (PC010)</p>	

FOR PROFESSIONAL USE ONLY

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. Brand names mentioned in this data sheet are trademarks of or are licensed to Akzo Nobel.

Table 1 – Neutral Spray test

Coating system		Interpon BPP 330 + Interpon D1036			
Conditions	Substrate	Steel 2mm			
	Pretreatment	Grit blasting SA 2.5 - Ra 6-12µ			
	Interpon BPP 330 thickness	60 - 70 µ			
	Interpon D1036 Ral 9010 thickness	70 - 80 µ			
	Adhesion on surface before test	Class 0			
Neutral Salt Spray ISO 9227	Time	Quotation	Corrosion	Blistering	Adhesion
	1000 hours	Scribe	XX	Size 4 Degree 1	Loss 1,5 mm
		Surface	Ri 0	None	Class 0
	1522 hours	Scribe	XX	Size 4 Degree 3	Loss 2 mm
		Surface	Ri 0	None	Class 0

Please refer to the quotations page 4

Table 2 – Cycle 3C

Coating system		Interpon BPP 330 + Interpon D1036			
Conditions	Substrate	Steel 2mm			
	Pretreatment	Grit blasting SA 2.5 - Ra 6-12µ			
	Interpon BPP 330 thickness	70 - 80 µ			
	Interpon D1036 Ral 7022 thickness	80 - 90 µ			
	Adhesion on surface before test	Class 0			
3C Cycle Renault method ME D17 1686 One cycle description: - 24h salt spray - 4x24h (8h humid chamber 40°C-98%RH ; 16h normal chamber 20°C-73%RH) - 48h drying chamber 20°C-63%RH	Cycles number	Quotation	Corrosion	Blistering	Adhesion
	3 cycles	Scribe	X	Size : 4 Degree 4	Loss 2 mm
		Surface	Ri 0	None	Class 0
	6 cycles	Scribe	X	Size 4 Degree 4	Loss 4 mm
		Surface	Ri 0	None	Class 0
	9 cycles	Scribe	X/XX	Size 5 Degree 5	Loss 5 mm
		Surface	Ri 0	None	Class 0

Please refer to the quotations page 4

Results quotation of accelerated ageing tests

	Adhesion	Rust	Blistering
At Scribe	Loss of adhesion from edge of scribe, in mm (by peeling using a scalpel)	0 None X Slight XX Moderate XXX Severe	Degree of blistering in accordance with ISO 4628 0 : None 1 : Some defects 2 : Small 3 : Medium 4 : Important 5 : Very important
On general Surface	In accordance with ISO 2409 Class 0 : no peeling to Class 5 : total peeling	In accordance with ISO 4628 Ri0 : 0% Ri1 : 0,05% Ri2 : 0,5% Ri3 : 1% Ri4 : 8% Ri5 : 40 to 50%	Blisters size in accordance with ISO 4628 0 : None (invisible at 10x magnification) 1 : Just visible (10x magnification) 2 : Just visible (normal vision) 3 : Clearly visible ($\leq 0,5$ mm) 4 : 0,5 to 5 mm 5 : > 5 mm