# Product Data Sheet

**AkzoNobel Powder Coatings**

**Interpon® HYF PLUS**

## Product Description

*Interpon HYF PLUS* is a coating developed for internal parts of water boilers. The product has good mechanical properties, high chemical resistance and excellent boiling water resistance.

## Powder Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chemical type</strong></td>
<td>Modified Epoxy</td>
</tr>
<tr>
<td><strong>Colour</strong></td>
<td>Green, Blue, Grey – medium or dark shade</td>
</tr>
<tr>
<td><strong>Particle Size</strong></td>
<td>Suitable for spray application</td>
</tr>
<tr>
<td><strong>Gloss</strong></td>
<td>ISO2813-1978 (E) 85%±5</td>
</tr>
<tr>
<td><strong>Specific gravity</strong></td>
<td>1.5 ± 0.2 g/cm³ (Theoretical value, it depends on the colour)</td>
</tr>
<tr>
<td><strong>Shelf life</strong></td>
<td>6 months</td>
</tr>
<tr>
<td><strong>Stoving schedule</strong></td>
<td>20 min at 200°C</td>
</tr>
</tbody>
</table>

## 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.

<table>
<thead>
<tr>
<th>Substrate</th>
<th>Mechanical Tests:</th>
<th>Chemical Tests:</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.6mm degreased steel</td>
<td></td>
<td>0.6mm Zinc and iron phosphated steel</td>
</tr>
<tr>
<td>0.6mm Zinc and iron phosphated steel</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Film Thickness**

- Mechanical tests: 60 ± 5 micron
- Chemical tests: 75±5 micron

**Stoving**

- 20 min at 200°C - (object temperature)

## Mechanical Tests

<table>
<thead>
<tr>
<th>Property</th>
<th>Method</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adhesion</td>
<td>ISO 2409</td>
<td>G10</td>
</tr>
<tr>
<td>Erichsen Cupping</td>
<td>ISO1520</td>
<td>&gt; 6 mm</td>
</tr>
<tr>
<td>Hardness</td>
<td>ASTM D3363</td>
<td>H-2H</td>
</tr>
<tr>
<td>Impact (indiretto)</td>
<td>ISO6272</td>
<td>2 Joule - pass</td>
</tr>
<tr>
<td>Flexibility</td>
<td>ISO1519</td>
<td>Pass 3 mm</td>
</tr>
</tbody>
</table>

## Test di corrosione

<table>
<thead>
<tr>
<th>Property</th>
<th>Method</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salt Spray</td>
<td>ISO 9227 - ASTM B117</td>
<td>600 hrs detachment &lt; 1 mm from the cross hatch</td>
</tr>
<tr>
<td>Umidostatic Chamber</td>
<td>ISO 6270-1</td>
<td>1000 hrs - Without blistering or loss of gloss</td>
</tr>
<tr>
<td>Boiling Water Resistance @ 98°</td>
<td>Akzo Nobel F12 (Internal Method - Akzo Nobel)</td>
<td>&gt; 1500 hrs (Iron phosphate steel) &gt; 2500 hrs (Zinc phosphate steel) &gt; 200 hrs (sand blasted)</td>
</tr>
</tbody>
</table>
Interpon HYF

Pre-treatment

The best boiling water resistant performances are linked to the pre-treatment quality. For more information regarding specific substrates and applications for Interpon HYF PLUS contact Akzo Nobel.

Application

Interpon HYF PLUS can be applied by manual or automatic electrostatic spray equipment. Unused powder can be reclaimed using suitable equipment and recycled through the coating system.

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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