Interpon Redox
Your one stop shop for corrosion protection
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Interpon Redox is your total corrosivity solution, enabling products to withstand whatever the world can throw at them, and remain fully operational long into the future. Because people like you need reliable products that set their own standards of excellence and provide a sustainable performance. And because people like you need Interpon.

From outdoor playgrounds to gas stations, swimming pools to ski lifts, the Interpon Redox range brings simplicity to corrosion protection. Our Interpon Redox systems have been developed with characteristics that address variables from substrate to corrosivity, making it much easier for customers to pick the perfect coating system to suit their needs. By offering a full series of multi-layer powder systems, including primers, intermediates, and topcoats in a variety of colors, textures and finishes, Interpon Redox provides you with a one-stop-shop for corrosion protection.

What’s more, the high durability coatings use no harmful Volatile Organic Compounds (VOCs), and produce little waste, so you can be tough on corrosion while protecting the environment.

**Interpon Redox APA**
Robust primer system with excellent edge protection and a wide curing window

**Interpon Redox One Coat**
Deliver corrosion protection up to C4M in a single coat

**Interpon Redox Active**
Extremely protective three-layer system for highly corrosive environments

**Interpon Redox PZ**
The best performing powder primer for corrosion protection over blasted steel

**Interpon Redox Plus**
Durable protection for a wide variety of substrates and pre-treatment methods

**Interpon Redox APA**
Preventing the out-gassing of porous materials such as hot dip galvanized steel, zamak, and cast iron

* Triplex known in some Asia countries as Three layer
Leading benefits

One stop shop for corrosion protection
The Interpon Redox series includes a variety of primers, intermediates, and topcoats providing the specific solution you need for the environment and substrate. With steel best protected by three-layer systems and aluminum by two-layer systems, for example, we have created the flexibility and specificity you need to provide a right first-time solution.

Specification made easy
With Interpon Redox it’s easier than ever to find the right solution to meet your needs. The new digital tool called ‘System Finder’ guides you towards the best powder coating depending on the project and parameters. Supported by our dedicated sales and technical expert teams, we’re helping you with everything from the selection of product and coordination of color, right through to ongoing care and choosing the right applicator.

The sustainable choice
Interpon Redox comes free of VOCs, solvents and toxic components, and produces less waste. The range also enhances longevity, helping to protect natural resources and reduce emissions by creating products that are built to last.

Proven reliability
With over 40 years of experience in more than 70 countries, a truly global footprint, and some of the world’s most advanced R&D centers, we’ve got the in-depth knowledge of corrosion protection to ensure that you can deliver an optimal performance every time.

Efficiency without compromise
Interpon Redox powder coatings are easy to apply and can be cured faster, enabling you to enhance your productivity and ensure that you complete the task in hand with time to spare.

Maximum protection longevity
Interpon Redox powder coatings provide maximum longevity, even in C4 or C5 corrosive environments. Because of this, our products have the longest time to first maintenance, no matter the setting, so you can cut maintenance costs and requirements while achieving the highest performance levels.
Types of corrosion protection

Corrosion protection comes in different forms depending on the substrate and environment. What remains consistent is the Interpon Redox system, which enables the range to offer the highest levels of protection.

Passivating steel with powder
Delaying a corrosive reaction or neutralizing acid ions with corrosion-inhibiting pigments that have the capacity to passivate a steel substrate.

Protection by barrier effect
Isolating steel from its environment with a water and airproof barrier to block direct contact with oxygen and other corrosive agents and prevent corrosion.

Cathodic protection
Connecting metal to a more reactive “sacrificial metal”, that will corrode instead of the protected substrate.

Multi-layered protection
As shown below, our powder systems are layered to offer the highest level of protection.
Identify which Interpon Redox system meets your protection requirements

### Chemical pre-treatment

<table>
<thead>
<tr>
<th>Chemical Pre-treatment</th>
<th>C1</th>
<th>C2</th>
<th>C3</th>
<th>C4</th>
<th>C5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interpon Redox One Coat</td>
<td></td>
<td></td>
<td>H</td>
<td>M</td>
<td>L</td>
</tr>
<tr>
<td>Interpon Redox Active</td>
<td></td>
<td></td>
<td>H</td>
<td>M</td>
<td>L</td>
</tr>
<tr>
<td>Interpon Redox Plus</td>
<td></td>
<td></td>
<td></td>
<td>H</td>
<td>M</td>
</tr>
<tr>
<td>Interpon Redox PZ</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Not recommended</td>
</tr>
<tr>
<td>Interpon Redox Triplex</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Not recommended</td>
</tr>
</tbody>
</table>

### Mechanical pre-treatment

<table>
<thead>
<tr>
<th>Mechanical Pre-treatment</th>
<th>C1</th>
<th>C2</th>
<th>C3</th>
<th>C4</th>
<th>C5</th>
</tr>
</thead>
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<tr>
<td>Interpon Redox One Coat</td>
<td></td>
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<td>M</td>
<td>L</td>
</tr>
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<td>Interpon Redox Active</td>
<td></td>
<td></td>
<td>H</td>
<td>M</td>
<td>L</td>
</tr>
<tr>
<td>Interpon Redox Plus</td>
<td></td>
<td></td>
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<td>H</td>
<td>M</td>
</tr>
<tr>
<td>Interpon Redox PZ</td>
<td></td>
<td></td>
<td></td>
<td>H</td>
<td>M</td>
</tr>
<tr>
<td>Interpon Redox Triplex</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>H</td>
</tr>
</tbody>
</table>

Durability ranges based on the ISO 12944:2018 standard:

- **Low (L)**: up to 7 years
- **Medium (M)**: 7 to 15 years
- **High (H)**: 15 to 25 years
- **Very High (VH)**: more than 25 years

The right powder solution for every project

There are multiple variables that influence the speed of corrosion, such as the material of a product and the environment in which it is located. But by adjusting to different levels of corrosion and lifetime expectations, Interpon Redox systems are able to meet each product’s specific protection requirements and application limitations.
Comprehensive product range

All of the products within the Interpon Redox range are designed to be highly durable, delivering superior longevity for C4/5 environments compared to other coating solutions. Efficiency is also key: our products are easy to select – our guide is based on ISO 12944:2018 corrosivity categories – and similarly easy to apply, with shorter curing times to enable projects to be completed on time, every time.

Interpon Redox APA

This primer is designed for application on porous substrates that are susceptible to out-gassing as Interpon Redox APA significantly improves finishing by drastically reducing bubbling effect. Interpon Redox APA is ideal for application on hot dip galvanized steel, metal spray, zamak and aluminum brass.

Characteristics and advantages

- Outstanding outgassing properties
- Excellent edge coverage
- Very easy to apply
- Excellent adhesion with topcoat.
**Interpon Redox One Coat**

*Interpon Redox One Coat* enables you to deliver corrosion protection up to C4M in a single coat. Unlike traditional coatings, which require a primer for adhesion and corrosion protection, followed by a topcoat for UV protection and gloss, Interpon Redox One Coat delivers good levels of corrosion protection and UV durability from one application. Suitable for outdoor applications, the range is available in a comprehensive range of colors to make product selection as simple as the application.

**Characteristics and advantages**

- Robust product to use regardless of pre-treatment method saving costs since no additional investments in pre-treatment are required
- UV Durability making it suitable for outdoor use
- One coat application method saving process time and costs
- Corrosion protection up to C4M providing extended lifetime of the object due to corrosion protection
Interpon Redox Active

Interpon Redox Active is a powder primer with active anticorrosive pigments that cause a passivation effect to protect the substrate. It has been formulated to offer the best adhesion for the topcoat - powder or liquid.

This versatile and zinc-free primer offers robust protection, even with varying thickness levels of the substrate within one project. It can be formulated in different colors to approach the color of the topcoat and be used as a holding primer for up to six weeks. And because it is easy to apply, offers excellent edge coverage, and allows a wide curing window, this system is especially suitable for complex objects.

Characteristics and advantages

- Robust corrosion protection performance up to 7 years in corrosivity level C5 for steel
- Ease of application on complex objects
- Suitable for objects with varying levels of substrate thickness
- Performs well across a variety of curing schedules
- Provides excellent edge coverage
- Designed for use with chemical and mechanical pre-treatment
- Can be used as holding primer for up to 6 weeks
- Available in a broad variety of colors
- Compatible with a wide range of topcoats
- Voc-free, solvent-free and zinc-free

Interpon Redox Plus

This barrier-effect powder coating can be used on multiple substrates, and on surfaces with chemical or mechanical pre-treatment. The two-layer system comprises a pure epoxy primer and a topcoat (powder or liquid) to deliver greater protection against corrosion and rust (up to level C5). Easy to apply and with a smooth finish, Interpon Redox Plus has a high resistance to damage and is available for use on both porous and non-porous metal substrates.

Characteristics and advantages

- Strong protection against corrosion and rust, up to C5 level
- Extra tough and durable - high resistance to damage
- Ease of application; spray as conventional powder coatings
- System available for both porous and non-porous metal surfaces
- Designed for use with chemical and mechanical pre-treatment
- Can be used as a holding primer
- Compatible with a wide range of topcoats
- Offers a smooth finish to different substrates
- Voc-free, solvent-free and zinc-free
Interpon Redox PZ

Compatible with a range of topcoats, Interpon Redox PZ is the best performing powder coating for corrosion protection over blasted steel. It combines a barrier effect primer with long lasting cathodic protection, a cost-effective combination for products that are either submerged or above ground and uses a unique blend of zinscs ensures the highest level of conductivity to create cathodic cells that protect the metal substrate. Moreover, the aesthetic, detect-free finish provides a significantly better-quality finish than other metal zinc protection systems.

Characteristics and advantages

- Excellent performance and corrosion prevention up to C5 environments
- Best performing powder primer for corrosion protection over blasted steel
- Aesthetic, defect-free finish, particularly in comparison to other metal zinc protection such as galvanizing or zinc metal spraying
- Designed for use with mechanical pre-treatment
- Compatible with a wide range of topcoats
- Voc-free, solvent-free

Interpon Redox Triplex*

Interpon Redox Triplex offers the benefits of both cathodic and enhanced barrier protection. This three-layer system combines the zinc-rich primer Interpon Redox PZ with the barrier-protective primer Interpon Redox Plus – finished with your choice of Interpon topcoat. It is designed primarily to protect steel objects that are pre-treated through grit or shot blasting and is ideal for environments with high humidity or salinity. This system is recommended in highly aggressive environments up to C4/5.

Characteristics and advantages

- Ultra-strong corrosion protection performance up to C5 environments
- Combination of barrier and cathodic protection
- Ideal for high-humidity environments
- Provides excellent edge coverage
- Designed for use with mechanical pre-treatment
- Compatible with a wide range of topcoats
- Voc-free and solvent-free

* Triplex known in some Asia countries as Three layer
Finding the solution to meet your needs

We offer a full range of materials and resources to help you succeed with your project: from product selection, color coordination, and project specifications, to choosing an accredited applicator and ongoing care and maintenance advice.

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits for the customer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corrosion protection</td>
<td>Extended life time of end use products in highly corrosive environment (C4-C5)</td>
</tr>
<tr>
<td>VOC-free</td>
<td>Sustainability alternative to liquid coating</td>
</tr>
<tr>
<td>System finder</td>
<td>Easy to select right products for bespoke challenges</td>
</tr>
<tr>
<td>Reference to ISO12944 corrosion coating standard</td>
<td>Clarity for end users in connecting our products to ISO corrosion environment categories and requirements (NSS / cycle)</td>
</tr>
<tr>
<td>Tested and proven product systems</td>
<td>Our product offer is based on more than 40 years' experiences</td>
</tr>
<tr>
<td>One stop shop</td>
<td>A full range of corrosion protection systems including primers and topcoats in different performance levels, depending on customer requirements.</td>
</tr>
</tbody>
</table>

The Interpon Redox system

Our range of topcoats
- Interpon 700 series
- Interpon 600 series
- Interpon D1000 series
- Interpon D2000 series
- Interpon EC

- Chemical pre-treatment
- Mechanical pre-treatment

For superior corrosion protection in aggressive environments, shot/grit blasting is recommended

Interpon Redox powder systems enable you to perfectly meet specific protection requirements and application limitations for your project. After you have identified the corrosivity of the environment and the desired longevity of protection, selecting the right system takes three steps:

1. Identify the substrate and pre-treatment of your assets
2. Determine which other criteria the system has to account for
3. Select your topcoat
1. Substrate and pre-treatment
The performance of the system is closely dependent on its substrate and surface preparation.

<table>
<thead>
<tr>
<th>Features</th>
<th>Pre-Treatment</th>
<th>Interpon Redox APA</th>
<th>Interpon Redox One Coat</th>
<th>Interpon Redox Active</th>
<th>Interpon Redox Plus</th>
<th>Interpon Redox PZ</th>
<th>Interpon Redox Triplex</th>
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<tbody>
<tr>
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<td>Chemical</td>
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</tr>
<tr>
<td></td>
<td>Mechanical</td>
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<td>✔</td>
<td>✔</td>
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<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>HDG Steel</td>
<td>Chemical</td>
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<td>✔</td>
<td></td>
<td></td>
<td>✔</td>
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</tr>
<tr>
<td></td>
<td>Mechanical</td>
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<tr>
<td>Zintec</td>
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<tr>
<td></td>
<td>Mechanical</td>
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<td>✔</td>
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<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Stainless steel</td>
<td>Mechanical</td>
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<td>✔</td>
<td></td>
<td></td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Aluminium</td>
<td>Chemical</td>
<td>✔</td>
<td>✔</td>
<td></td>
<td></td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

2. Protection criteria
These selection criteria help you find the system that keeps your assets protected from corrosion:

- Edge protection (sharp edges)
- Multiple color options
- Re-coating time
- Easy to apply (application point of view)
- Suitable for complex objects
- Different metal thickness on same object or oven
- Curing range
- Suitable for sea environment
- Surface smoothness
- Zinc-free system
- Cathodic protection
- Compatibility with liquid topcoat
- CMR-free label

3. Topcoat selection
Find the Interpon topcoat to finish your design

<table>
<thead>
<tr>
<th>Range</th>
<th>Interpon 700</th>
<th>Interpon 600/610</th>
<th>Interpon EC</th>
<th>Interpon 800/810</th>
<th>Interpon D1000</th>
<th>Interpon D2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor use</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Outdoor use (UV durability)</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Chemical resistance</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Resistance to overbaking</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Paint flexibility</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Paint hardness</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Protection against graffiti</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Curing window</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Gloss range</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>
We’ve been pioneering a world of possibilities to bring surfaces to life for well over 200 years. As experts in making coatings, there’s a good chance you’re only ever a few meters away from one of our products. Our world class portfolio of brands – including Dulux, International, Sikkens and Interpon – is trusted by customers around the globe. We’re active in more than 150 countries and have set our sights on becoming the global industry leader. It’s what you’d expect from the most sustainable paints company, which has been inventing the future for more than two centuries.

For more information please visit www.akzonobel.com and www.interpon.com

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