Czech Republic
Tel: +420 553 692 275

Egypt
Tel: +20 (0) 2 38 33 1415

France
Tel: +33 160 81 81 81

Germany (Arnsberg)
Tel: +49 (0) 2932 6299 0

Germany (Reutlingen)
Tel: +49 (0) 7121 5190

Greece
Tel: +30 210 8160 160

India
Tel: +91 (0) 802 289 5000

Italy (Como)
Tel: +39 031 345 111

Mexico
Tel: +52 55 522 68 310

Norway
Tel: +47 66 819 400

Portugal
Tel: +35 1 212 96100

Romania
Tel: +40 21 3232 314

Russia
Tel: +7 495 411 7350

South Africa
Tel: +27 (0) 11 907 8195

Spain
Tel: +34 9 3440 8100

Sweden
Tel: +46 (0) 31 928 500

Turkey
Tel: +90 232 355 18 00

United Arab Emirates
Tel: +971 4886 2181

United Kingdom
Tel: +44 (0) 121 555 1500

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Collection Eternity: Low Solar Absorption Powder Coatings

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AkzoNobel is the world's largest manufacturer of powder coatings and a recognized leader in powder coatings technologies.

With bases in more than 100 countries worldwide, we supply customers in every industry and are passionate about helping our customers succeed. Our dedicated team of experts is excited to support architects and contractors on selecting the most suitable coatings solutions that deliver superior and unique finishes.

Interpon D Powder Coatings for Architecture

Interpon D® our powder coating ranges specifically designed for architectural and construction projects. Suitable for coating metal surfaces such as steel and aluminium - including curved roofs, frames of windows and doors - the coatings are designed for protection, as well as an aesthetic finish that introduces the design codes. Our team is development to reflect and anticipate modern tastes and trends.

Interpon D® products come with a wide range of guarantees and are suitable for architectural and construction projects. Qualified: Qualicoat and AAMA.

Collection Eternity finishes shown on this card are made with AkzoNobel’s Interpon D2525 ECO technology, a super durable, heat reflective coating system. It has been developed to support architects on sustainable design, and limit the phenomenon of urban heat island and global warming. It aims to improve people's everyday quality of life and reduce their energy costs.

As part of the Interpon D2525 range, Interpon D2525 ECO coating system is designed to meet the highest safety standards and architectural aesthetics in urban environments, with a track record of more than 20 years. This technology supports architects in designing energy-efficient buildings that limit the effects of urban heat islands and global warming, and helps to reduce energy costs. AkzoNobel's Interpon D2525 ECO coating system is designed to provide architects with a range of finishes that are both aesthetically pleasing and environmentally sustainable. The coating system is also designed to be energy-efficient, providing a cost-effective solution for architects and designers who are looking to reduce their carbon footprint.
Interpon D2525 ECO
The trusted powder coating technology for Green Building

Nowadays, people are redefining the way that they think about the places where they want to live, work and learn. In response to the desire to improve quality of life, without jeopardising the environment for future generations, architects and engineers are identifying and implementing practical and measurable green building design and construction techniques.

Sustainable architecture uses a more environmentally conscious approach to design, that seeks to minimize the negative environmental impact of buildings with efficient use of energy and materials. Such an approach can only help to reduce the effects of global warming along with a phenomenon known as urban heat island.

Urban heat island is occurring in large cities across the globe, where the builtup areas are experiencing higher temperatures than nearby rural areas. The temperature differences fluctuate over the course of the day and in the evening the difference can be as high as 12°C. Heat island affects communities by increasing summertime peak energy demand, air conditioning costs, air pollution and damaging our quality of life, resulting in heat-related illness and even, in some cities, complete blackouts.

Eternity - the Essential Collection for Green Building

AkzoNobel has always been at the cutting edge, developing products that improve sustainability and diminish environmental impact. In response to the problem of urban heat island and global warming, Akzonobel is proud to present the Eternity Collection which uses Interpon D2525 ECO Technology.

Eternity, the Essential Collection for Green Building is a 20 shades color range of heat reflective powder coatings. As part of the Interpon D2000 range, it comes with exceptional durability – a proven 21 year on-building track record. We believe that it will become the first choice of architects, not only helping to reduce energy bills but also providing the following benefits:

- Building life cycle cost efficiency
- Better quality of living
- Less problems with polyamide of thermal break aluminum profiles
- Exceptional weathering durability
- A guarantee of up to 25 years
- Exceptional heat reflective performance
- Modern color range
- Qualicoat Class 2; AAMA 2604 compliance
- Contribution to LEED “green building” certification
- SMaRT accredited products
- Unlimited customized colors and finishes, upon request
What is Urban Heat Island Effect?

An urban heat island (UHI) is when a metropolitan area is significantly warmer than its surrounding rural areas. The temperature difference between urban areas and the surrounding suburban or rural areas can be as much as 5°C during the day, and on an evening the difference can increase to as high as 12°C. UHI is experienced both during summer and winter. We can help to counteract the heat island effect with the use of reflective building materials on houses, roofs, pavements, and roads. The use of such materials can also lower energy demand, air conditioning costs, air pollution and help promote a better quality of life.

The mechanism behind heat absorption

The sun’s energy is made up of three components: the visible spectrum (46%), ultra-violet light (5%) and invisible infrared light (49%). And it’s the latter that is responsible for heat build-up; virtually half the sun’s total energy.
How Does It Work?

The Science Bit - How Interpon D2525 ECO works

Sustainable Architecture aims to reduce energy consumption and improve quality of life, with the use of specially developed materials, that ensure interior spaces are kept cool and comfortable. Powder coatings play an important role within Sustainable Architecture, as they can be used to coat most of the metallic building components on a designed project e.g. aluminum frames and panels, curtain walls, facades, blinds and shutters, sun shades/brise soleil, in fact any steel construction may be powder coated.

Interpon D2525 ECO powder coatings contain a reflective pigment that deflects the infrared light, and thus the sun’s heat, from any substrate that it coats. As a result, the surface of the substrate, and any interior spaces that it protects, are cooler than if painted with a standard coating.

To demonstrate the effectiveness of the ECO product, we coated two typical metallic house roofs in black - one from the ECO range, one from the standard one. Under controlled laboratory conditions, we replicated the effect of sunlight shining on the roofs and monitored the external surface and indoor temperatures. The outside temperature of the roof that was coated with Interpon D2525 ECO was 7°C cooler and the temperature inside the house was 3°C cooler than the standard-coated house roof.

### Graph

- **Temperature (ºC)**
- **Day Time (hr.min)**
- **09.00 11.00 13.00 15.00 17.00**
- **20 25 30 35 40 45 50 55**

<table>
<thead>
<tr>
<th>Standard Black</th>
<th>Onyx Black D2525 ECO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outside Metal Temp</td>
<td>Outside Metal Temp</td>
</tr>
<tr>
<td>Inside House Temp</td>
<td>Inside House Temp</td>
</tr>
</tbody>
</table>

**KEY**

- Standard Black
- Onyx Black D2525 ECO
Eternity
The Essential Collection for Green Building

The Interpon D2525 ECO new Eternity collection of 20 matt colors has a modern, understated feel and comes in four color themes.

**Luxury**
Add an extra dimension to prestigious projects with an opulent metallic finish.**

**Harmony**
Pale, light colors that create a feeling of calm and serenity.**

**Due to the limitations of printed media, the colors on this card may not be entirely accurate and are intended as a guide only of our actual product colors. Please contact us for further color assistance.**
The Color Palette

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**TSR Value:
Total Solar Reflectance value using ASTM G173 testing standards

Simplicity
Colors that work well to combine elements such as cement, glass and stone.

Howlite 902 YA202X
TSR Value 57%

Tashmarine 732 YL232X
TSR Value 36%

Agate 735 YL235X
TSR Value 31%

Opal 715 YL215X
TSR Value 31%

Emerald 605 YK205X
TSR Value 33%

Nuumite 817 YM217X
TSR Value 33%

Melanite 814 YM214X
TSR Value 26%

Topaz 803 YM203X
TSR Value 32%

Sapphire 505 YJ205X
TSR Value 33%

Onyx 905 YN215X
TSR Value 29%

Tashmarine 732 YL232X
TSR Value 31%

Sapphire 505 YJ205X
TSR Value 29%

Earthly
Colors that reflect the natural environment.

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Exceptional weathering durability
Interpon D2525 technology is the optimum choice for projects and residences in areas of high salinity, solar radiation, humidity and air pollution. D2525 offers significantly improved color and gloss retention in these high risk areas in comparison to standard architectural powder coatings, as shown in the two graphs.

Color Retention

Gloss Retention
Mission Hospital - A Landmark Project

The Interpon D2000 family of coatings is synonymous with durability. Indeed, the first building to be coated with it, 21 years ago, is proof of its superior qualities.

In 1991, architects Bobrow, Thomas & Associates selected the newly launched Interpon D2000 to coat the five-storey Patient Tower at California’s Mission Hospital. The project required a coating that could both withstand the heat and dryness of the Californian climate and also give a stylish finish to match the clean lines of the building.

The coating’s properties were measured in 2007 and 2012 and found to be still providing excellent protection and decoration. As a result, Interpon D2000, which forms the basis of all subsequent sub-series, including D2525, holds the world’s longest track record for a super-durable powder coating.

Interpon D2525’s unrivalled performance and durability promises to significantly add to a building’s lifecycle.

Mission Hospital Measured Results

<table>
<thead>
<tr>
<th></th>
<th>Interpon D2000 After 21 years exposure</th>
<th>AAMA 2604-05 limit (5 years test Florida)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color Retention</td>
<td>Delta $\Delta E = 3.18$</td>
<td>Delta $\Delta E &lt; 5$</td>
</tr>
<tr>
<td>Gloss Retention</td>
<td>59%</td>
<td>&gt; 30%</td>
</tr>
</tbody>
</table>

The most reliable 25 year guarantee

The Interpon D2000 series of powder coatings from AkzoNobel includes the regional variations: Interpon D2525 and Interpon D2015. These series products are available globally from AkzoNobel Powder Coatings and are supplied with the most reliable warranty, guaranteed up to 25 years.

The Interpon D2000 series has the longest and most extensive track record of any super durable powder coating, it’s exceptional reliability making it the specifier’s choice.
Exceptional heat reflective performance

Total Solar Reflectance (TSR) measures the heat reflectance performance of a coated surface. The graphs below show how Interpon D2525 ECO technology may improve TSR factors for the Eternity Collection colors. The TSR value of Onyx 905 is improved by 539% and the relative value of Opal 715 by 27% absolute TSR units. This significantly reduces the overall heat reflectance and the actual temperature on the coated surface, and therefore the inside building temperature.

Conventional TSR values in comparison with the TSR values for Interpon D2525 ECO

<table>
<thead>
<tr>
<th>Color</th>
<th>Conventional TSR</th>
<th>Interpon D2525 ECO TSR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Onyx 905</td>
<td>23%</td>
<td>71%</td>
</tr>
<tr>
<td>Hematite 907</td>
<td>22%</td>
<td>43%</td>
</tr>
<tr>
<td>Topaz 716</td>
<td>21%</td>
<td>41%</td>
</tr>
<tr>
<td>Tashmarine 732</td>
<td>57%</td>
<td>57%</td>
</tr>
<tr>
<td>Sillimanite 716</td>
<td>7%</td>
<td>7%</td>
</tr>
<tr>
<td>Howlite 902</td>
<td>7%</td>
<td>7%</td>
</tr>
<tr>
<td>Zultanite 748</td>
<td>77%</td>
<td>49%</td>
</tr>
<tr>
<td>Agate 735</td>
<td>54%</td>
<td>51%</td>
</tr>
<tr>
<td>Scapolite 102</td>
<td>5%</td>
<td>10%</td>
</tr>
</tbody>
</table>

*All TSR measurements according to ASTM G173 testing standards
AkzoNobel is the world's largest manufacturer of powder coatings and a recognized leader in powder coating technologies.

With bases in more than 100 countries worldwide, we supply customers in every industry and are passionate about creating new solutions that help our clients achieve their business goals. We are proud to support architects and consultants on creating the most sustainable coatings solutions that deliver top-quality and unique finishes.

Interpon D Powder Coatings for Architecture

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Interpon D products come with a range of guarantees and meet international and architectural standards including Qualicoat, SII and NAMA.

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As part of the Interpon D2000 range, Interpon D2525 ECO is a high-performance technology, a shade system with a high light reflectance that prevents decay, besides being high-performance anti-radiative, it also has high adhesion, which guarantees a long life for the finish. When specified, this coating can reflect more than 80% of the incident radiation of the solar spectrum, reducing energy consumption by more than 70%. This technology is used to develop paints that are resistant to standing in the sun, that maintain their color for more than 10 years, ensuring durability on all substrates.

This technology is designed to meet the highest weathering requirements of Qualicoat Class 2 and the US Standards AAMA 2604, ensuring a longer life for the finish. When specified, this coating is used to develop paints that are resistant to standing in the sun, that maintain their color for more than 10 years, ensuring durability on all substrates.

Collection Eternity technical characteristics

- Interpon D2525 ECO technology
- High performance technology
- Shade system with high light reflectance
- High adhesion
- Resistant to standing in the sun
- Maintains color for more than 10 years

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