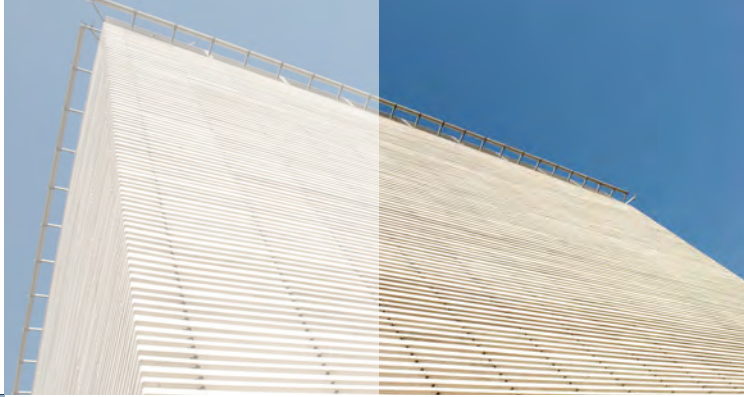


Collection Eternity : Low Solar Absorption Powder Coatings



Eternity

The Essential Collection
for Green Building



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

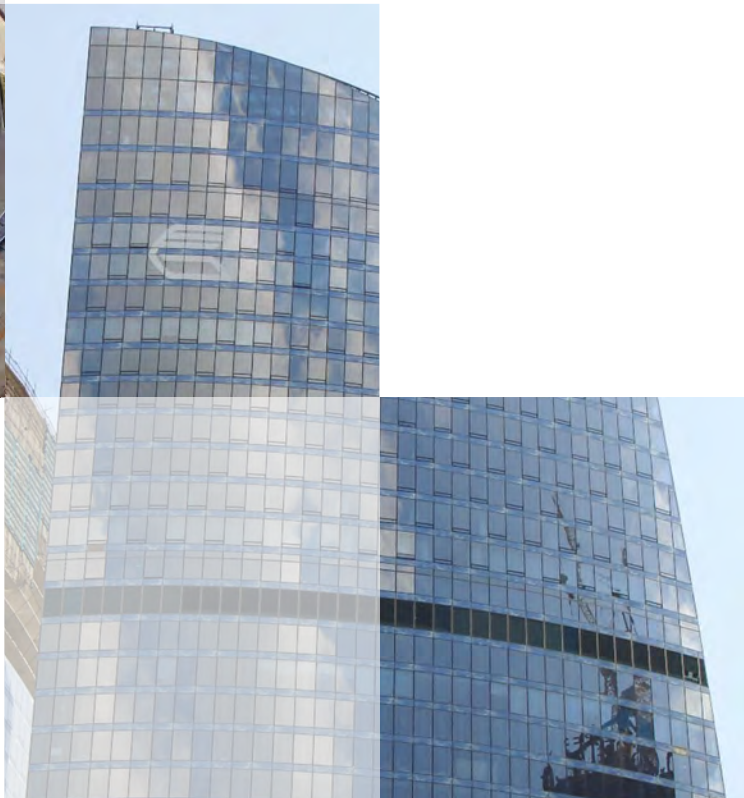
With bases in more than 44 countries worldwide, we supply customers in virtually every country and are passionate about developing sustainable answers for our customers. We are excited to support architects and consultants on selecting the most suitable coatings solutions that deliver stunning and unique finishes.

Interpon D Powder Coatings for Architecture

Interpon D is our powder coatings range specifically designed for architectural and construction projects. Suitable for coating metallic surfaces such as steel and aluminum - including curtain walls, frames, shutters, beams and panels - the range has been developed to give both exceptional performance and protection, as well as an aesthetic finish that enhances the design. Colors, too, are developed both to reflect and anticipate modern tastes and trends.

We have over 40 years' experience in supplying construction projects in all arenas, from bridges to stadiums, sky-scrapers to cultural centers, including some of the world's most iconic structures.

Interpon D products come with a range of guarantees and meet all international and architectural standards including Qualicoat, GSB and AAMA.



Track Record projects pictured front & back cover, plus pages 2 & 3 include:

- New Acropolis Museum, Athens, Greece
- Trump Towers, Istanbul, Turkey
- Smart Village Pavilion, Giza, Egypt
- Soccer City, Johannesburg, South Africa
- Onasis Cultural Center, Athens, Greece
- Federation Tower, Moscow, Russia
- Aldar HQ, Abu Dhabi, UAE
- Haus Santa Fe, Mexico City, Mexico
- Esentai Park, Almaty, Kazakhstan
- Museum of Islamic Art, Doha, Qatar
- Veles e Vents, Valencia, Spain



Interpon D2525 ECO

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.

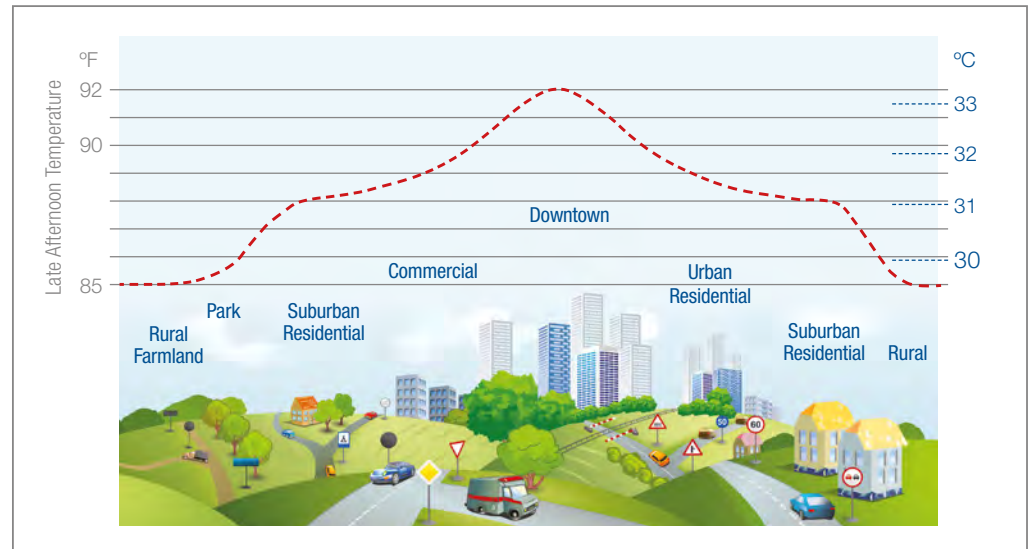
Eternity -

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.

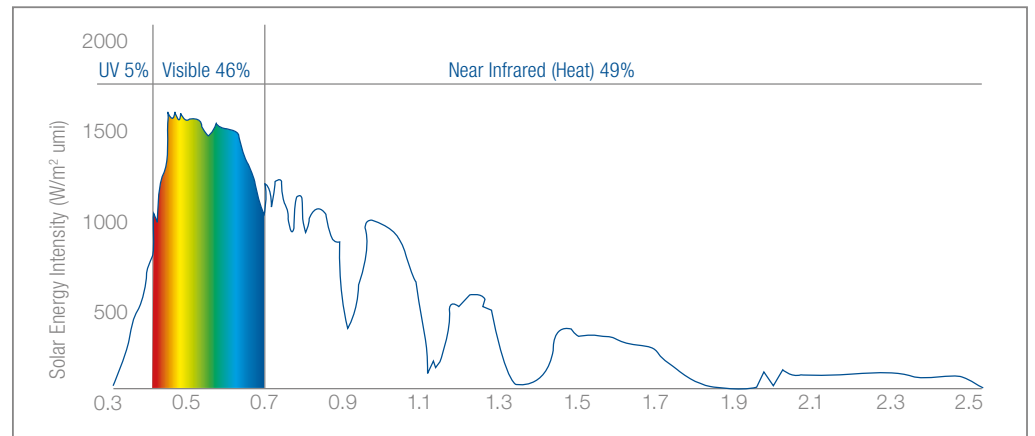
Eternity, the Essential Collection for Green Building is a 20 shades color range of heat reflective powder coatings. As part of the **Interpon D2000** range, it comes with exceptional durability – a proven 21 year on-building track record. We believe that it will become the first choice of architects, 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

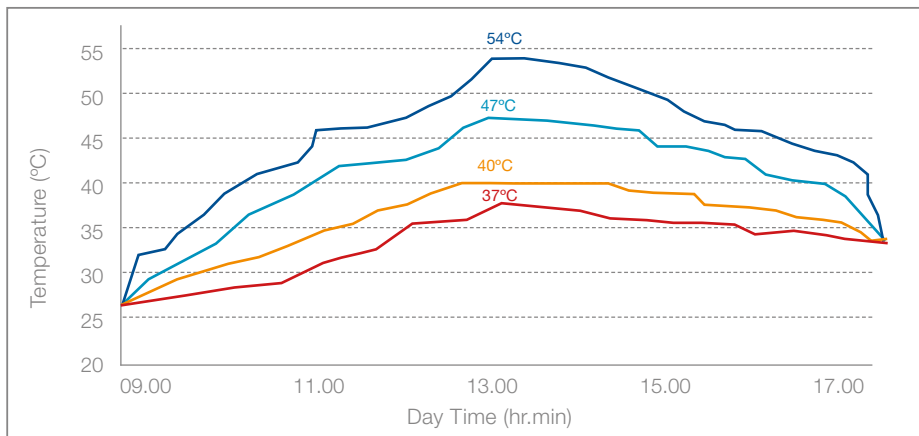
The sun's energy is made up of three components: the visible spectrum (46%), ultra-violet light (5%) and invisible infrared light (49%). And it's the latter that is responsible for heat build-up; virtually half the sun's total energy.

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.



KEY

Standard Black
Outside Metal Temp

Onyx Black D2525 ECO
Outside Metal Temp

Standard Black
Inside House Temp

Onyx Black D2525 ECO
Inside House Temp



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.



REPRESENTATIVE ONLY
SAMPLE

TSR Value 43%



Zultanite 748

YW278X

TSR Value 41%



Hematite 907

YW297X

TSR Value 57%



Goshenite 906

YW296X

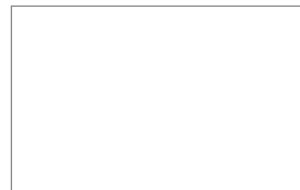
Luxury

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

Harmony

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

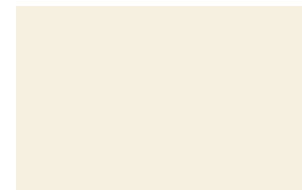
TSR Value 79%



Perlite 916

YA216X

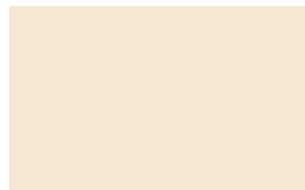
TSR Value 76%



Pearl 901

YA201X

TSR Value 70%



Moonstone 113

YD213X

TSR Value 69%



Spodumene 115

YD215X

TSR Value 51%



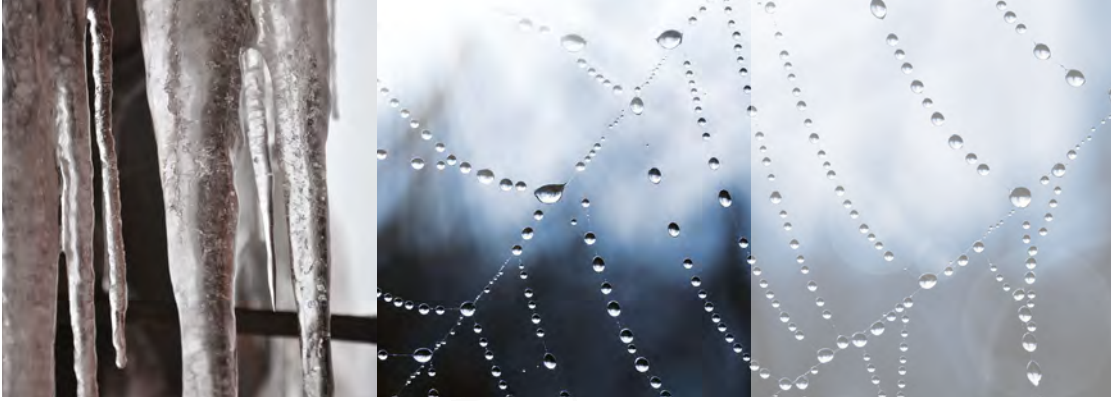
Scapolite 102

YD202X

**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.



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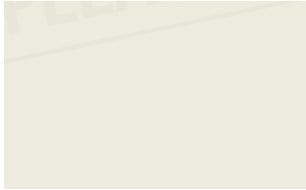
*TSR Value:
Total Solar Reflectance
value using ASTM G173
testing standards



Simplicity

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

TSR Value 71%



Howlite 902

YA202X

TSR Value 57%



Tashmarine 732

YL232X

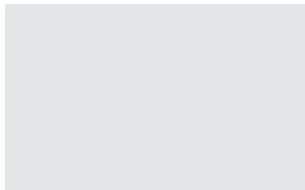
TSR Value 36%



Opal 715

YL215X

TSR Value 65%



Agate 735

YL235X

TSR Value 31%



Sillimanite 716

YL216X

TSR Value 37%



Pyrope 303

YG241X

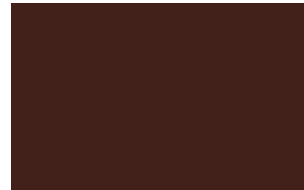
TSR Value 32%



Topaz 803

YM203X

TSR Value 23%



Nuumite 817

YM217X

TSR Value 26%



Melanite 814

YM214X

TSR Value 18%



Emerald 605

YK205X

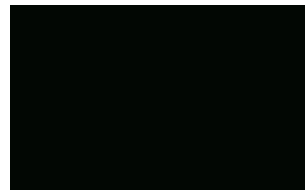
TSR Value 33%



Sapphire 505

YJ205X

TSR Value 29%



Onyx 905

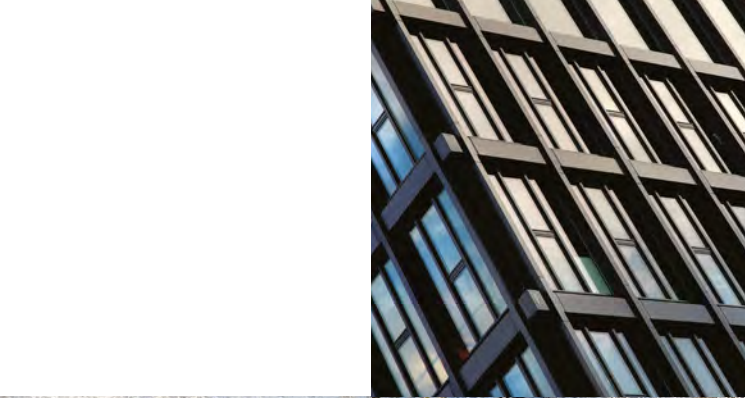
YN215X



The Color Palette

Earthy

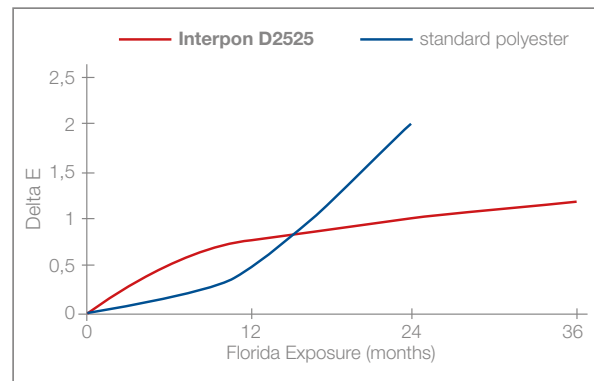
Colors that reflect the natural environment.**



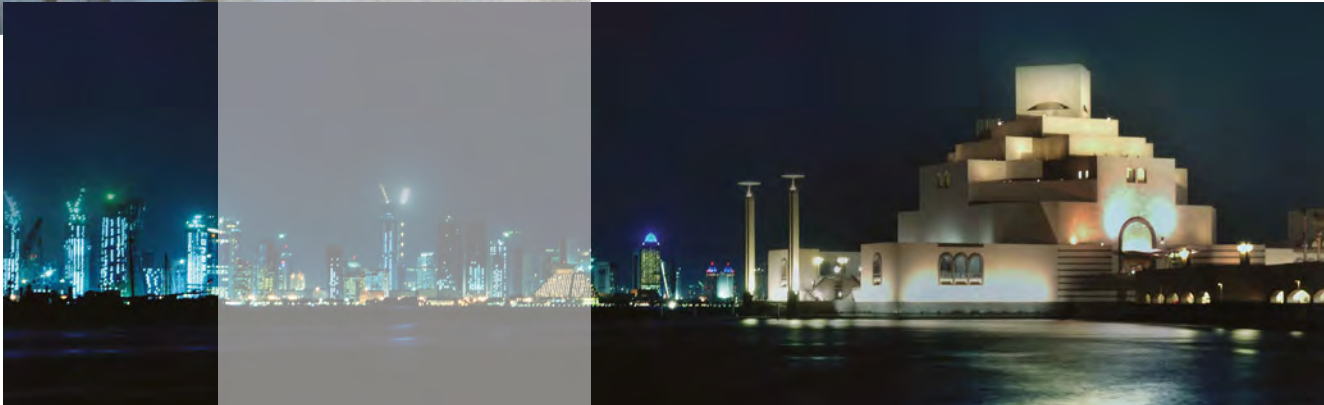
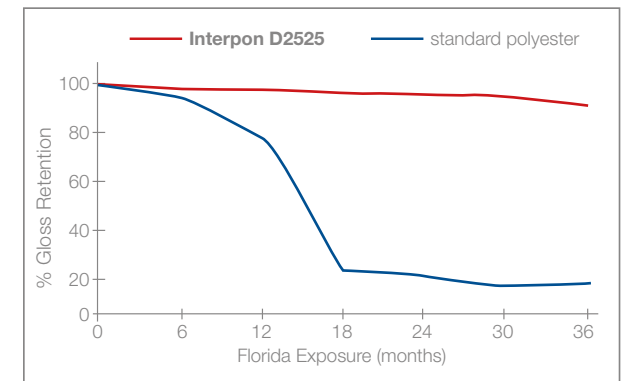
Exceptional weathering durability

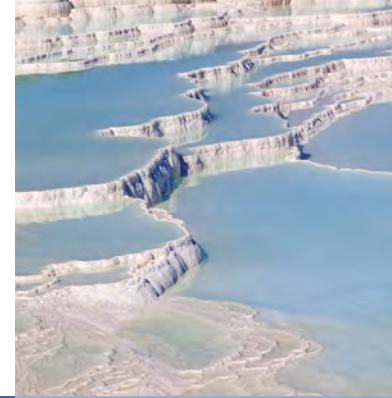
Interpon D2525 technology is the optimum choice for projects and residences in areas of high salinity, solar radiation, humidity and air pollution. **D2525** offers significantly improved color and gloss retention in these high risk areas in comparison to standard architectural powder coatings, as shown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

Interpon D2000	After 21 years exposure	AAMA 2604-05 limit (5 years test Florida)
Color Retention	Delta $\Delta E = 3.18$	Delta $\Delta E < 5$
Gloss Retention	59%	> 30%

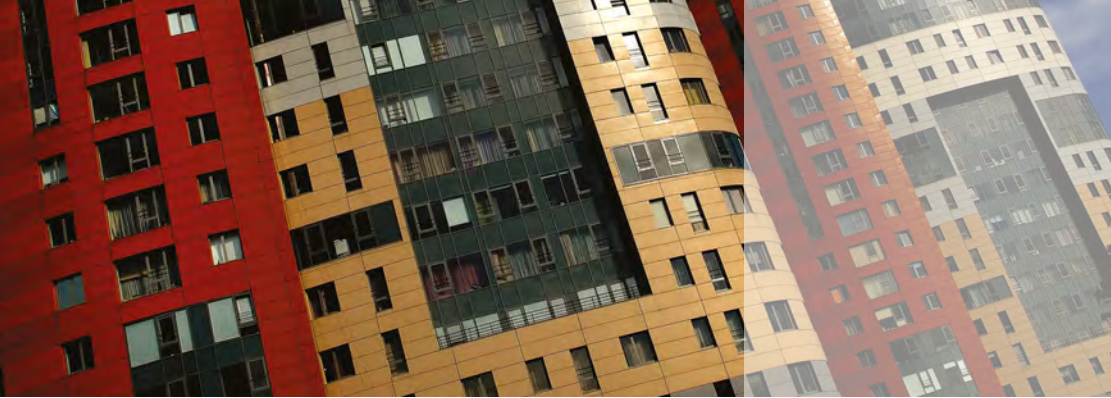
The most reliable 25 year guarantee

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.



Why Specify
Interpon D2525 ECO?

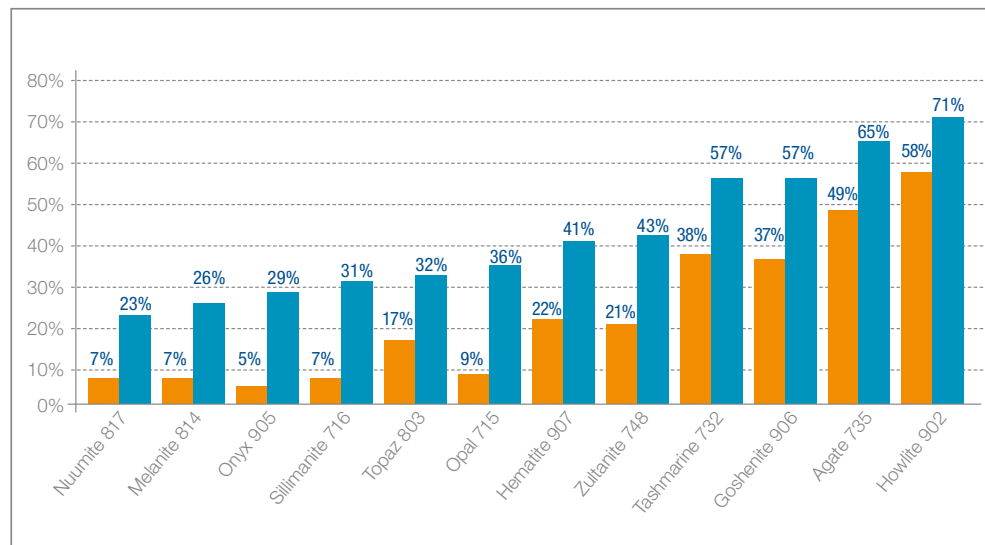


Exceptional heat reflective performance

Total Solar Reflectance (TSR) measures the heat reflectance performance of a coated surface.

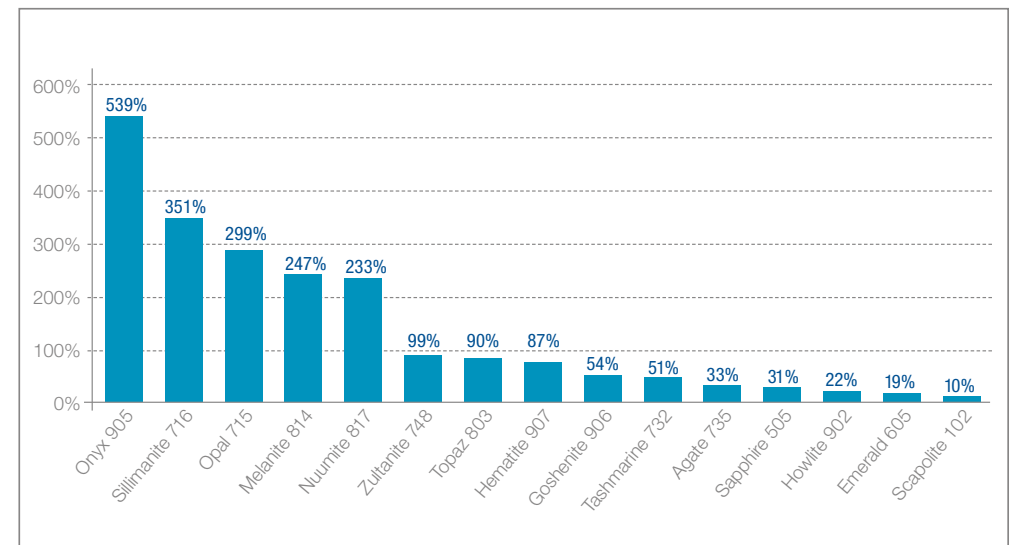
The graphs below show how **Interpon D2525 ECO** technology may improve TSR factors for the **Eternity Collection** colors. The TSR value of Onyx 905 is improved by 539% and the relative value of Opal 715 by 27% absolute TSR units. This significantly reduces the overall heat reflectance and the actual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

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



■ Conventional TSR values
 ■ Interpon D2525 ECO TSR values

TSR factor improvement %



*All TSR measurements according to ASTM G173 testing standards

Collection Eternity

technical characteristics

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 D2000** range, **Interpon D2525 ECO** comes with a track record of more than 20 years proven durability on the building.

This technology is designed to meet the higher weathering requirements of Qualicoat Class 2 and the US Standards AAMA 2604, ensuring a longer-life for the finish. When specifying, ensure you include the full product specification identity, e.g. Product Technology: **Interpon D2525 ECO**, Shade Description: Sillimanite 716, Product Code: YL216X.

The application parameters can affect the appearance of special finishes. Some slight variations in finish may occur. This document is not contractually binding.



FR

La collection **Eternity** présentée sur ce nuancier est une gamme de finitions réalisées avec la technologie **Interpon D2525 ECO** d'AkzoNobel, une peinture en poudre Super Durable réfléchissant la chaleur, développée afin d'assister les architectes dans la conception de bâtiments de haute qualité environnementale, limitant des phénomènes d'îlots de chaleur urbains (ICU) et le réchauffement climatique et augmentant ainsi l'efficacité énergétique en améliorant la qualité de vie et tout en diminuant les coûts énergétiques.

Faisant partie des classes **D2000**, les poudres **Interpon D2525** bénéficient d'un recul d'expérience de plus de 20 ans sur des bâtiments dans le monde entier.

Cette technologie a été mise au point afin de répondre aux exigences du label Qualicoat Classe 2 et de la norme Américaine AAMA 2604, assurant à la finition une longévité accrue.

Lors de la prescription, assurez-vous de bien mentionner la désignation complète du produit. Par exemple. Technologie du produit : **Interpon D2525 ECO**, Teinte : Sillimanite, Code produit : YL216X.

Les paramètres d'application influencent l'aspect et le rendu des peintures en poudre avec effet. De légères différences d'aspect peuvent donc être constatées. Ce document n'est pas contractuel.

GR

Τα χρώματα της συλλογής **Eternity** που παρουσιάζονται στο χρωματολόγιο αυτό παράγονται με την τεχνολογία **D2525 ECO** της AkzoNobel. Πρόκειται για υπερανθεκτικές πούδρες βαφής με ιδιαίτερα ενισχυμένες ιδιότητες ανάκλασης της θερμότητας. Έχουν αναπτυχθεί για την υποστήριξη των αρχιτεκτόνων για πράσινη δόμηση, τον περιορισμό του φαινομένου της θερμικής αστικής νησίδας και της υπερθέρμανσης του πλανήτη, βελιώνοντας την ποιότητα ζωής και μειώνοντας τις ενεργειακές ανάγκες. Ως μέρος της ομάδας προϊόντων μας **Interpon D2525**, έχουν αποδεδειγμένη αντοχή που ξεπερνά τα 20 χρόνια. Οι πούδρες **Eternity** είναι πιστοποιημένες κατά Qualicoat Class 2, και ανταποκρίνονται στις απαιτήσεις AAMA 2604. Κατά την προδιαγραφή τους, βεβαιωθείτε ότι αναφέρονται με σαφήνεια όλα τα στοιχεία της ταυτότητας του χρώματος, π.χ. Τεχνολογία: **Interpon D2525 ECO**, Απόχρωση: Sillimanite 716, Κωδικός: YL216X.

Οι παράμετροι εφαρμογής είναι δυνατόν να επηρεάσουν την εμφάνιση των ειδικών εφέ. Μερικές διαφοροποιήσεις στην απόχρωση μπορεί να παρουσιαστούν. Αυτό το χρωματολόγιο δεν είναι νομικά δεσμευτικό.

TR

Collection Eternity kartelasında yer alan renkler, AkzoNobel **Interpon D2525 ECO** teknolojisini ile geliştirilmiştir. Isıyı yansıtan süper dayanımlı toz boya serisi mimarlar sürdürülebilir tasarımlarda desteklerken, kentsel ısı adaları ve küresel ısınmaya karşı günlük yaşam kalitesini iyileştirmekte ve enerji sarfiyatını düşürmektedir. **Interpon D2000** serisinin bir parçası olarak, 20 yılı aşkın referanslarının desteklediği kanıtlanmış performans da beraberinde sunmaktadır. Qualicoat Class 2 ve Amerikan AAMA 2604 gibi yüksek iklimlendirme standartlarını karşılayan teknoloji yüzeylere uzun ömür sunmaktadır. Ürünleri şartnamelerinize yazarken, ürün kimliğini eksiksiz yazmaya dikkat ediniz, örn. Ürün Teknolojisi: **Interpon D2525 ECO**, Renk: Sillimanite 716, Ürün Kodu: YL216X.

Uygulama parametreleri, yüzey görünümünü etkileyebilir, renk ve efek farkları gözlemlenebilir. Bu doküman bağlayıcı değildir.

RU

Покрyтия коллекции **Eternity** - супердолговечные порошковые покрытия с теплоотражающим эффектом, созданные с использованием технологии **Interpon D2525 ECO** концерна AkzoNobel. Новая коллекция предназначена для использования архитекторами и заказчиками в эко-премиум проектах с целью уменьшения городского теплового островного эффекта и глобального потепления, экономии энергозатрат, а также улучшения повседневного качества жизни людей. Доказанная долговечность покрытий серии **Interpon D2000** на здании составляет более 20 лет.

Технология **Interpon D2525 ECO** удовлетворяет высочайшим требованиям ведущих европейских стандартов Qualicoat Class 2, а также американского стандарта AAMA 2604, что гарантирует долговечность наших покрытий. При выборе покрытия, не забудьте внести в спецификацию полное название продукта, например, Технология: **Interpon D2525 ECO**; Описание цвета: Sillimanite 716, Код продукта: YL216X.

Условия нанесения могут влиять на внешний вид данных покрытий. Могут наблюдаться незначительные различия внешнего вида покрытия. Данный документ не может считаться частью официальной оферты.

RO

Finisajele **Colectiei Eternity** sunt realizate cu tehnologia **Interpon D2525 ECO** a companiei AkzoNobel. Aceasta tehnologie Super Durabila de vopsire in camp electrostatic, ce reflecta caldura, va oferi suport arhitectilor in crearea de designuri sustenabile ce vor limita efectul de incalzire urbana (UHI) imbunatatind astfel calitatea vietii si ducand la o scadere a costurilor la energie. Facand parte din Gama **Interpon D2000** are un track record de peste 20 de ani de durabilitate dovedita.

Aceasta tehnologie a fost creata sa indeplineasca cerintele inalte de rezistenta in fata intemperiiilor specificate de standardele Qualicoat Class 2 si US Standards AAMA 2604, asigurand astfel o viata mai lunga pentru finisaje. Cand specificati va rugam sa va asigurati ca ati mentionat intreaga identitate a produsului, exemplul: Tehnologia Produsului: **Interpon D2525 ECO**, Descrierea culorii: Sillimanite 716, Cod Produs: YL216X.

Parametri de aplicare pot influenta aspectul final. O usoara deviatie a nuantei finisajului poate aparea. Acest document nu creaza obligatii contractuale.

AR

Collection Eternity - هي المؤثرات المعروضة داخل هذا الكتيب و المصنعة بتكنولوجيا أكزونوبل **Interpon D2525 ECO**. هي نظام دهان فائق التحمل وعاكس للحرارة . و قد صنعت بتكنولوجيا متطورة لتدعم المعمارين لتصميمات طوبئة العمر. و لتقليص تأثير ظاهرة الاحتباس الحراري على هذه التصميمات. إنها تستفيد تحسين جودة معيشتنا اليومية من خلال ترشيد تكاليف الطاقة.

و أنها كجزء من مجموعة منتجات **Interpon D2000, Interpon D2525 ECO** فإنها مصحوبة بسجل من المشروعات المثبتت متانة الدهان على المباني بها للأكثر من 20 عاماً.

هذه التكنولوجيا صممت لتقاوم أعلى ظروف الطقس المتصوص عليها في أنظمة الجودة (كواليكوت الفئة الثانية) و المعايير الأمريكية **AAMA 2604** لضمان عمر أطول للدهان .

عند التوصيف، تأكد من كتابة المواصفات و التعريف الكامل للمنتج (مثال: تكنولوجيا المنتج **Interpon D2525 ECO** , وصف اللون **Sillimanite 716** كود المنتج **YL216X**).

قياسات التطبيق و الرش من الممكن أن تؤثر على الشكل النهائي و المؤثرات المرغوبة، كما ممكن أن تحدث بعض الفروق الطفيفة في الشكل النهائي، هذه الوثيقة ليست ملزمة تعاقدياً

For more information on **Eternity - the Essential Collection for Green Building** speak to your AkzoNobel Powder Coatings representative or visit our website at www.interpon.com



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