

# Luxacote®

Luxacote® is a high-performance coating specially developed for metal architectural products. The unique three-layered system and the three-coat/three-bake continuous coil coating process create a powerful coating system that provides more protection and adds more value to building products.



# Luxacote®

more than a coating

## Withstand outdoor conditions

Exterior building applications have to withstand a wide range of punishing outdoor conditions. Rain, snow, UV rays, drastic temperature changes, dirt, pollution, and the passing of time can all effect the quality, appearance and performance of the building exterior.

## Enhance the benefits of aluminium

For this reason, aluminium is often the choice for external use, due to its outstanding durability, light weight, and variety of attractive finishes. To further enhance the benefits of aluminium products, Hunter Douglas has created Luxacote®, an innovative coating system, to provide excellent - and integral - protection to exterior aluminium products.

Cover : Jagiellonian University Life Science Centre, Krakow, Poland  
Product : type SL4, SL3 84R Sun Louvre, 84R V4 Open Façade  
Architect: AD Art



## Compatible with all systems

The Luxacote® system is backed by the over fifty years of exterior building experience of Hunter Douglas. It is compatible with Hunter Douglas Multiple Panel Façades, Sun Louvres, Exterior Ceilings and Soffits enhancing their durability against colour fading, scratches, and corrosion.

Above : Ster Shopping Mall, Szczecin, Poland  
Product : 84R  
Architect: MAAS

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**HunterDouglas**   
Architectural



Production by Hunter Douglas



# Designed to work for you

Unprecedented Protection  
**LUXACOTE®**  
for exterior application

Project : Terminal at Gdansk Lech Walesa Airport, Gdansk, Poland  
Product : Wide Panel 300C/300L Exterior Ceiling  
Architect : JSK Architekci Sp z o.o.



## Durability Defined: The Make-up of Luxacote®

**Luxacote® is an exclusive Hunter Douglas innovation that enhances the durability of exterior aluminium building applications. Its strength and efficiency comes from a powerful 3-layered system that consists of an anorcoat pretreatment, primer and a top coat with integrated UV filter.**

### ANORCOAT - THE KEY TO DURABILITY

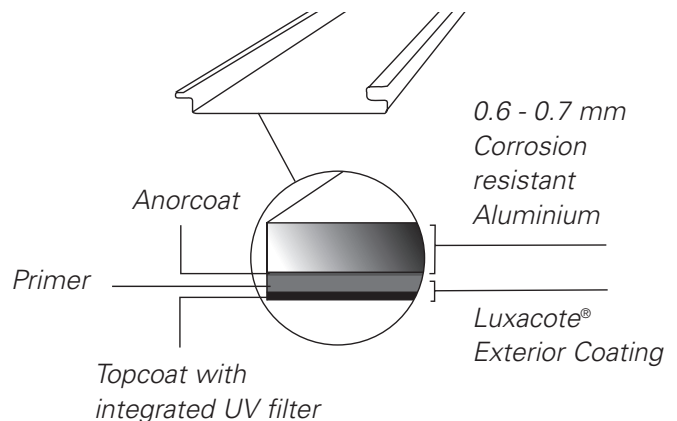
After degreasing and cleaning the aluminium substrate, an anorcoat conversion layer is applied to the product. This conversion layer accomplishes two things:

- Permanently anchors the paint to the aluminium surface
- Protects the aluminium surface from corrosion

Anorcoat is the key to the excellent performance of the Luxacote® system; it provides far superior protection than conventional conversion layers.

### PRIMER - FOR ENHANCED LONGEVITY

Over the anorcoat we apply a primer that seals the substrate, resulting in enhanced longevity of the panels. To ensure optimal colour-fastness, we only use colour-stable pigments.



### TOPCOAT - THE FINAL TOUCH

The pigments in the polyurethane topcoat provide the panels their colour while the integrated polyamide particles are the finishing touch of the Luxacote® system, giving products a scratch- and wear-resistant surface. Additionally, the polyamid particles protect from UV rays, improving the durability of the colour and gloss.

# A spectrum of strength

## THE COLOURS OF LUXACOTE®

The colours available to the Luxacote® system vary from traditional subtle shades to vivid, bold and exciting colour palettes. A full range of metallic colours are also available.

Hunter Douglas has completely integrated the application of Luxacote® into the production process. The result: extremely durable products with slightly textured surfaces that manage potentially damaging outdoor conditions.

Unprecedented Protection

**LUXACOTE®**

for exterior application



*Below* : Weena Tunnel, Rotterdam, The Netherlands  
Product : Exterior Ceiling  
Architect: Maarten Struijs

*Above* : Distributie Centrum, Tilburg, the Netherlands  
Product : Baffles V100  
Architect: Jeroen Weijers, Van Oers Weijers Architecten



# Protection Plus: The benefits of Luxacote®

**The durable, protective benefits of Luxacote® are proven by strong results in tests conducted by leading institutes. These benefits include the following:**

## **COLOUR AND GLOSS STABILITY**

Beyond passing accelerated erosion tests in a laboratory, the Luxacote® system also proved its strength in additional representative tests for colour and gloss stability in the state of Florida in North America, known for its intense heat and strong sun. The results of these tests qualify Luxacote® for the highest category, in accordance with the EN 1396 standard.

## **CORROSION RESISTANCE**

Corrosion can lead to permanent structural damage. While aluminium is not a traditionally corrosive material, there remain several circumstances which can prove challenging. Coastal or polluted areas and contact corrosion - damage caused by direct contact of aluminium and iron - can take a toll on even the most durable of materials.

The Luxacote® system provides aluminium the highest possible protection against even these influences. Luxacote® meets the requirement for the highest category for corrosion, within the EN 1396 tested according to EN 13523-19. The test site was located on the Dutch coast, another area known for its difficult and intense climate conditions.

*Below* : Management University (WSM), Warsaw, Poland  
Product : Linear Façade 84R  
Architect: Czuba Latoszek



### **HIGH SCRATCH RESISTANCE**

When compared to other metal coatings, the Luxacote® system provides superior resistance to scratches. The slightly textured topcoat surface masks minor damages - including those incurred during installation - and keeps the exterior application looking beautiful.

### **THE RIGHT ALLOY**

Excellent pre-treatment and a colour-stable coating is not enough to produce a product that performs well; The right aluminium alloy is equally important. In order to reach the optimal durability level, Hunter Douglas utilizes a highly corrosion-resistant aluminium alloy type - EN AW 3005 or equivalent.



*Right* : River Park, Bratislava, Slovakia  
Product : MPF 150F/200F in 3 colours  
Architect: Erick van Egeraat

# Architecturally Strong, Environmentally Delicate



## DURABILITY

Hunter Douglas exterior building products with Luxacote® are an environmentally friendly choice. Due to their outstanding durability, re-coating is typically unnecessary, which reduces additional impact on the environment. The corrosion resistance of products coated with Luxacote® eliminates the need for early replacement, which reduces the need for use of additional raw materials.

## SMARTER, SUSTAINABLE-MINDED PRODUCTION

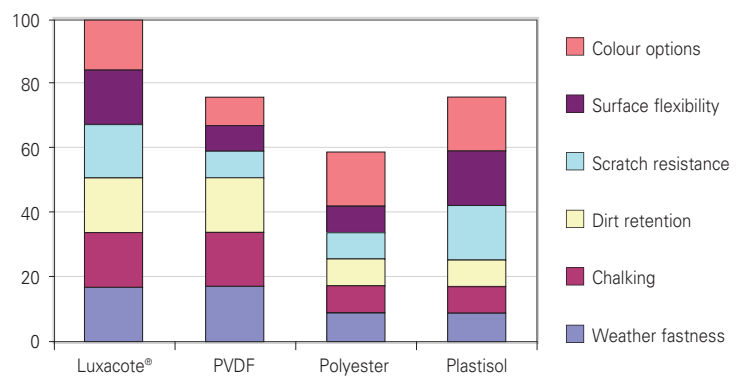
Hunter Douglas has also taken extensive measures to restrict the environmental effects of production and used materials. Luxacote® is based on polyurethane chemistry and contains no chlorine, fluorine, or other halogens. During the curing process, generated energy is re-purposed to heat the ovens, saving natural gas. The coating is then applied in such a way that no paint is lost, with remaining paint being stored in drums that are removed under controlled conditions.

## ENERGY-SAVING ALUMINIUM

More and more, aluminium is being recycled worldwide. Reconditioning recycled aluminium expends only 5 to 6 percent of the total energy required to create primary aluminium.

## SUPERIOR CHARACTERISTICS

The following graphic gives a comparative and instant overview of the total performance of the most common coating systems. While some products score well on a few characteristics, the Luxacote® system exceeds in every aspect.



Below : Kielce Fiar, Kielce, Poland  
Product : Sun Louvre 132S  
Architect: BSOP





# Technische specificaties Luxacote®

CHARACTERISTIC	ACCORDING STANDARD	SPECIFICATION
Coating thickness	EN 13523-1, ISO 2360	24-32 microns
Gloss	EN 13523-2, ISO 2813	28 <sup>±5</sup> units
Gloss variation within 1 delivery	EN 13523-2, ISO 2813	± 3 units
Colour difference compared to standard	EN 13523-3, ISO 7724, part 3	DE<2 units
Colour variation within 1 delivery	EN 13523-3, ISO 7724, part 3	DE<0.7
Resistance to cracking on bending	EN 13523-7, ISO 1519	depends on chosen aluminium and required profile
Adhesion	EN 13523-5, ISO 6272 EN 13523-7, ISO 1519 ISO 2409	impact: 2T: no loss of adhesium
Pencil hardness	EN 13523-4 ASTM D 3363	≥ HB
Corrosion resistance	EN 1396, EN 13523-19	highest category (see tabel C1)
Humidity resistance	EN 13523-9, ISO 6270 ISO 4628/2	blisters less than size 2 (S2)
Acetic acid salt spray fog resistance	EN 13523-8, ISO 4628/2	1000 hours, less than 2 mm. Undercreep and blistering max. S2
Salt spray test	ISO 7253	test too mild for aluminium

Below : Mathematics Science Institut, Madrid, Spain  
 Product : Sun Louvre 84R and 100R  
 Architect: BSOP



# Designed to work for you

**Hunter Douglas is a global player within the field of modern architecture. We understand the conflict between form and function better than anyone, and enrich the market with inspiring solutions that strengthen the aesthetic appeal of buildings and their functionality in terms of indoor climate, energy use and acoustics.**

We develop clever and aesthetically appealing solutions in collaboration with architects and designers to control heat, light, sound and energy. We are also inspired by real-world challenges and ideas as well as developments in technology and materials. All our products are thought out in great detail to make a difference to both architects and end users.



Hunter Douglas adopts the cradle to cradle (C2C) product philosophy to the design of products that fit the circular paradigm. Our products are designed for longevity, using materially healthy technical nutrients that can be reused at end of life as a high-quality source for something new.

*Cradle to Cradle Certified™* is a certification mark licensed by the Cradle to Cradle Products Innovation Institute.



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▲ SUN LOUVRES

CEILINGS ▼



▲ CEILINGS

FAÇADES ▼



## Architectural services

We support our business partners with a wide range of technical consulting and support services for architects and installers. We assist architects and developers with recommendations for materials, shapes, dimensions, colours and finishes. We also help create design proposals, visualisations and technical drawings. Our services to installers range from providing detailed installation drawings and instructions.

## More information

Contact our **Project Support** for further help and advice on the design possibilities our applications can create.

**Tel. +44 (0)1604 648 229**

Visit our website:

**[www.hunterdouglas.co.uk](http://www.hunterdouglas.co.uk)**



Hunter Douglas products and solutions are specifically designed to improve the indoor climate and save energy. They create an environment that is pleasant, healthy, productive and sustainable.



Hunter Douglas aims to produce sustainable products. Our painting and aluminium smelting processes are regarded as setting the bar for the most important standards in clean production methods. All aluminium products are 100% recyclable at the end of their lifecycle.



Ceilings



Sun Louvers



Façades

- Belgium
- Bulgaria
- Croatia / Slovenia
- Czech Republic
- Denmark
- France
- Germany
- Greece
- Hungary
- Italy
- The Netherlands
- Norway
- Poland
- Portugal
- Romania
- Russia
- Serbia
- Slovakia
- Spain
- Sweden
- Switzerland
- Turkey
- United Kingdom
- Africa
- Middle East
  
- Asia
- Australia
- Latin America
- North America

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