

Modular protection for urban furniture

Plascoat® Abcite® Alesta®





Urban street furniture

Urban furniture is part of our daily lives, and therefore has to meet our changing needs. It must be durable, resistant to environmental exposure and external damage, as well as remain aesthetically pleasing throughout its life time.

Thanks to thermosetting and thermoplastic, Axalta offers a catered solution for all of your needs.

Qualities of our urban street furniture coating

Durability

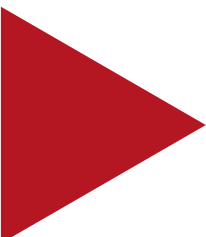
- Corrosion resistance
- Shock & impact resistance
- Chemical resistance: dog fouling
- Abrasion resistance
- Scratch resistance

Applicability

- Thermal stability
- Easy to use & economical
- All substrates possibilities
- Degassing sensitivity
- Repair possibilities

Aesthetics

- Colour variety
- Colour & surface effects
- UV resistance
- Graffiti resistance



Axalta Powder offers a full range of powder created from Thermosetting and Thermoplastic technology, to ensure you receive the best solution in terms of durability, aesthetics, and applicability, whatever your needs.

Common uses

- Benches
- Bicycle racks
- Bus stops
- Light posts
- Handrails, fences and barriers
- Playground & outdoor fitness equipment
- Road signs
- Manholes



Long-Term corrosion protection

Axalta's Plascoat® PPA 571 is a thermoplastic powder technology, designed to provide long-term corrosion protection for metal even in the most demanding environments. It provides a durable coating with the versatility to be used in a wide array of application and processing techniques, including

electro-static spraying, flock spraying and fluid bed dipping.

Plascoat® PPA 571 can be used on all metal substrates and has several advantages to alternative coatings.

Durability

- Superior resistance to salt, sea, sand & sun
- Excellent impact & abrasion protection
- Sub-zero temperature performance
- Barrier properties

Applicability

- No primer required, no maintenance during the product life cycle
- Multiple application methods (spraying, flocking, or dipping)
- Safe & dependable: easy to clean surface
- Protection of galvanised & aluminium substrates
- Repairable on-site, repair kit available on request

Aesthetics

- Resistance to UV damage & colour fading
- Functional & technical colour offerings
- Provides grip & warm-to-the-touch feel
- Resistance to acts of vandalism and graffiti
- Alesta® Top Coat can be used for decorative purposes



Trials at the Swedish Corrosion Institute have proved that Plascoat® PPA 571 is one of only three out of 52 corrosion protection systems that can extend the life of a lighting post by up to 50 years.

Plascoat® PPA 571 is:

- **Available with antislip performance reaching R12 rating according to DIN 5 1130**
- **Naturally resistant to graffiti. Graffiti paints cannot penetrate the coating and can be easily wiped off without leaving a permanent mark.**

For extreme environments

Urban furniture is extremely vulnerable to corrosion caused by acid rain, air pollution, road salt, high temperature fluctuations, condensation, and dog fouling. Damage is even more severe at the seaside, where sun, salt, wind and humidity attack the metal very aggressively.

The lower part of furniture is even more susceptible to salt and dog fouling – and must also withstand higher mechanical stress.

Abcite® is the the best 1-layer system in its class for powder coatings to protect urban furniture from extreme environments. Abcite® provides the best long-term corrosion protection with strong adhesion on metal with its 1-layer coating system.

Durability

- Excellent corrosion protection
- High impact & abrasion protection
- Corrosion protection up to Cx according to ISO12944-9 standard.
- Excellent adhesion on metal
- Sub-zero temperature performance
- Barrier properties

Applicability

- No primer required, no maintenance during the product life
- Flexible application methods (spraying or dipping)
- Protection of galvanised substrates
- Repairable on-site, repair kit available on request

Aesthetics

- Resistance to UV damage & colour fading
- Provides grip & warm-to-the-touch feel
- Resistance to acts of vandalism and graffiti



For thin steel and aluminum profiles combining different strengths or thicknesses, we recommend Abcite® 545 / Abcite® X45: the specific viscosity of this product allows to evenly cover all intricate parts and designs.

Common uses

- Light posts
- Handrails, fences and barriers
- Electric charging components
- Road signs
- Manholes
- Benches



Alesta® ZeroZinc Primer

Excellent adhesion

Alesta® ZeroZinc anticorrosion primers are formulated using High Density Crosslinking (HDC) technology and provide a coating that isolates the substrate from its environment, minimizing the corrosion process.

Combined with the different Alesta® topcoats, Alesta® ZeroZinc is the thermosetting primer of choice to coat your urban street furniture with spray application.

Durability

- Strong corrosion protection
- Excellent resistance to humidity & chemicals
- Corrosion protection up to C5 according to ISO12944-6 standards

Applicability

- Excellent adhesion to ferrous metals
- Dedicated grades for different substrates: steel, parts with sharp edges, degassing substrates (galvanised steel and metalization), etc.
- Best performance in yield per m² (low density thermosetting powder)
- Zinc free, hence no labeling requirement and easily transported

Aesthetics

- Primer for all types of Alesta® topcoats
- Excellent intercoat adhesion with an Alesta® topcoats

Alesta® ZeroZinc Steel Primer

Especially suitable for heavy ferrous metal parts

Alesta® ZeroZinc Edge Primer

For parts with sharp edges, thanks to its specific viscosity profile

Alesta® ZeroZinc Antigassing Primer

For substrates prone to outgassing such galvanised or metallised steel

Alesta® ZeroZinc Antigassing Reactive

Especially designed for thick parts and prone to outgassing such galvanised or metallised steel



Alesta® ZeroZinc Primer

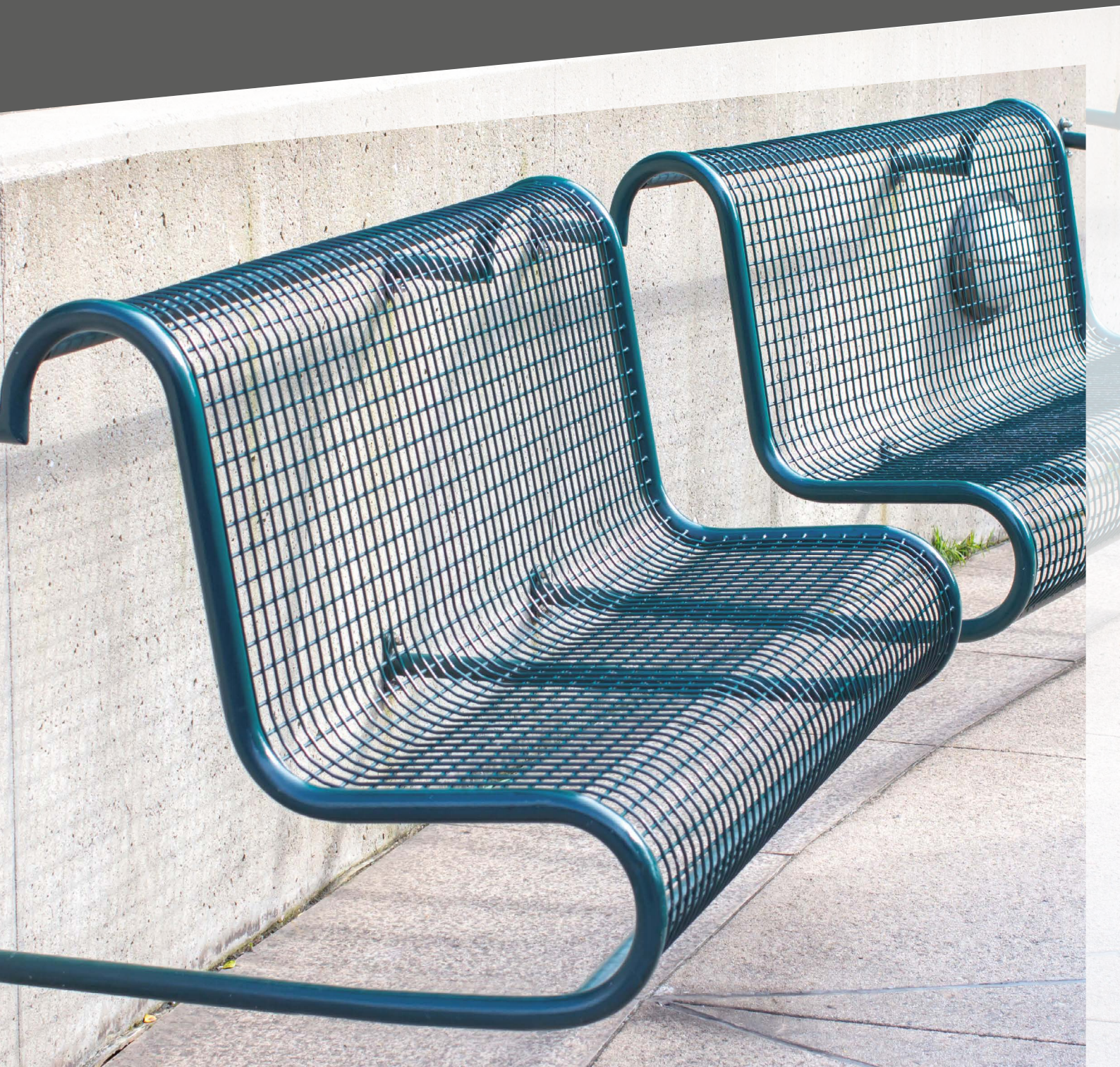
- Protects all metal substrates
- Perfect to cover sharp edges



Alesta® IP

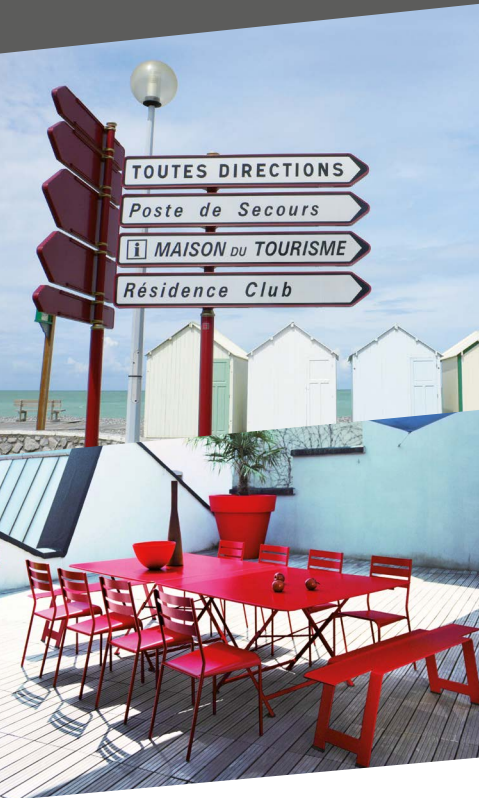
Easy processing for industrial applications

Alesta® IP are polyesters powder coatings suitable for various industrial applications. The generation of Alesta® IP Gloss manages to combine superior application properties with good weathering and UV resistance and is typically used for the decoration and protection of all type of metal pieces designed for outdoor use like garden or urban furniture.



Common uses

- Benches
- Garden furniture
- Fences



Durability

- Outdoor durability
- Good mechanical properties
- Good weather resistance

Applicability

- Easy application
- Reduces material consumption
- Excellent reactivity
- Very good flow

Aesthetics

- Main RAL based colours available & in stock
- Good UV-resistance



Alesta® IP also available in multiple metallic effect.

Common uses

- Benches
- Garden furniture
- Light posts



Alesta® AP Fine Textured

Excellent mechanical and weather resistance

Alesta® AP Fine Textured has been especially formulated for aluminum, steel and galvanised steel applications. It has excellent mechanical and weather resistance properties, and is therefore suitable for outdoor use. Alesta® AP products conform to Qualicoat and GSB standards, as well as comes with a 15 year warranty under certain conditions.

The Fine Textured Collection of Alesta® AP thermosetting powders offer an outstanding appearance and functional performance in a wide range of colours based on RAL – they are all available and in stock. This range of fine textured finishes fulfills all architectural requirements, provides premium levels of aesthetic and functional performance, hides imperfections and improves the scratch resistance of the finish.

Durability

- Outdoor durability
- Good mechanical properties
- Very good weather resistance
- Excellent scratch resistance

Applicability

- Covering of potential surface defects
- Can be applied on aluminium, steel, & galvanised steel substrates for architectural use
- Excellent and consistent appearance
- Lower energy consumption and higher efficiency

Aesthetics

- Wide number of colours & effects
- Excellent durability & colour stability
- Qualicoat Class 1 & GSB Florida 1 (Standard) certified



Alesta® AP, also available in Matt, Semi-Gloss, and Gloss finishes.



International Quality Label for Coated Steel

Alesta® AP AntiGraffiti Outdoor

Perfect graffiti protection

Alesta® AP AntiGraffiti Outdoor is a unique range specially developed for street furniture, which extends the durability of your equipment. It is intended for the protection of outdoor parts which are exposed to graffiti: urban furniture, bus stations, parking meters, railway stations and equipment including switch gears, signals, and bridges.

This polyester powder coating is certified Qualicoat and GSB, with high UV resistance and very good mechanical and anti-graffiti properties. It can be applied using a one-layer system or in combination with a primer.

Durability

- Outdoor durability
- Good mechanical properties
- Very good weather resistance

Applicability

- Antigrffiti properties in one single layer
- Compatible with other substances without any specific cleaning of the coating lines
- Can be applied on aluminum, steel, and galvanised steel substrates
- Good flow

Aesthetics

- Wide number of colours proposed at a 80% gloss level, including metallic finishes
- Qualicoat Class 1 & GSB Florida 1 (Standard) certified

**Approval by the Gütegemeinschaft Antigrffiti
(Dr. Kupfer; chemical resistance and cleanability).**



International Quality Label for Coated Steel



Common uses

- Waste containers
- Car parks
- Electric charging components
- Bicycle storage



Durability in aggressive environments

The Alesta® SD range ensures durability even in the most aggressive environments (high humidity and/or temperature). The main issue for urban street furniture is the loss of gloss and the colour deviation, due to sun exposure and rain. With Alesta® SD, you are guaranteed durability, with up to 25 years warranty under specific conditions.

Alesta® SD is part of our premium range, which is designed to meet even the most demanding specifications. All products have received the Qualicoat Class 2 and GSB Florida 3 (Master) quality labels, and meet the AAMA 2604 requirements, ensuring the highest level of protection is received when you are using Alesta® SD.

Durability

- Outdoor durability
- Good mechanical properties
- Excellent weather resistance

Applicability

- Can be applied on aluminum, steel, and galvanised steel substrates
- Excellent appearance
- Consistent appearance at different thicknesses
- Standard curing window, avoiding additional energy costs
- Up to 25 years warranty (under certain conditions)

Aesthetics

- Wide range of appearances (colour & gloss)
- Can be formulated in all types of finishes (texture & metallic effects)
- Qualicoat Class 2 certified
- GSB Florida 3 (Master) certified



International Quality Label for Coated Steel

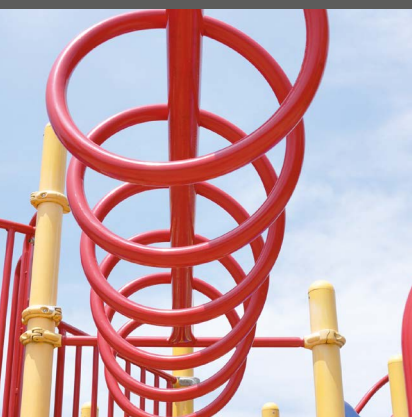
Common uses

- Garden furniture
- Light posts
- Retail equipment



Common uses

- Steel construction
- Urban & outdoor furniture
- Fencing
- Urban & outdoor lighting
- Playground & outdoor fitness equipment



Specialist for galvanised and zinc thermal sprayed steel

In an increasingly demanding market, there is greater need for better protection of galvanised and zinc thermal sprayed steel. By using Alesta® AP QualiSteel, you not only increase the durability and protection of most steel structures, but can do so using a wide range of colours.

Durability

- Outdoor durability
- Excellent mechanical properties
- Very good weather resistance

Applicability

- Excellent degassing properties
- Specifically designed for galvanised and zinc thermal sprayed steel
- Good flow

Aesthetics

- Main RAL based colours available & in stock
- Smooth semi-gloss finish
- Very good UV stability



Excellent 1-layer system for galvanised steel.



International Quality Label for Coated Steel

To help you choose the best coating for your urban street furniture, we have created a helpful guide outlining the features of each coating in the various categories: utilization/processing, durability, and aesthetics.

Utilisation/Processing

	Plascoat® PPA571	Abcite®	Alesta® IP	Alesta® AP	Alesta® AP AG	Alesta® SD	Alesta® AP QualiSteel
Number of layers	1 layer	1 layer	1 layer or 2 layers	1 layer or 2 layers	1 layer or 2 layers	1 layer or 2 layers	1 layer or 2 layers
Application method	Spray / dip	Spray / dip	Spray	Spray	Spray	Spray	Spray
Degassing performance	Good	Good	Medium	Good	Medium	Good	Excellent
Appearance (orange peel)	Medium	Medium	Good	Excellent	Good	Excellent	Good
Repair possibilities*	Yes	Yes	Via liquid	Via liquid	Via liquid	Via liquid	Via liquid

*Via Liquid : Contact us for more information.

Durability

	Plascoat® PPA571	Abcite®	Alesta® IP	Alesta® AP	Alesta® AP AG	Alesta® SD	Alesta® AP QualiSteel
Corrosion resistance (salt, sea, sand and sun) - 1 layer	★★★★★	★★★★★	★★★	★★★	★★★	★★★	★★★★★
Corrosion resistance (salt, sea, sand and sun) - 2 layer*			★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
Chemical resistance (dog fouling)	★★★★★	★★★★★	★★★	★★★	★★★	★★★	★★★
Shock, impact & abrasion resistance	★★★★★	★★★★★	★★★	★★★	★★★	★★★	★★★
Scratch resistance	★★★	★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
Sub-zero temperature performance mechanics	★★★★★	★★★★★	★★★	★★★	★★★	★★★	★★★

*using Alesta® ZeroZinc Primer

Aesthetics

	Plascoat® PPA571	Abcite®	Alesta® IP	Alesta® AP	Alesta® AP AG	Alesta® SD	Alesta® AP QualiSteel
Colour selection	★★★	★★	★★★	★★★★★	★★	★★★★★	★★★★★
Finishes available (Texture and Metallic effect and Gloss)	★★	★★	★★★	★★★★★	★★	★★★★★	★★★
UV resistance	★★★★★	★★★★★	★★★	★★★★★	★★★★★	★★★★★	★★★★★
Graffiti resistance	★★★★★	★★★★★	★★	★★	★★★★★	★★	★★

- ★★★★★ best in class
- ★★★★ excellent
- ★★★ superior
- ★★ good
- ★ possible

Success stories

Comparison of two coatings in Indiana, USA

Using Axalta® Powder Coatings, lamp posts, crash barriers, railings and a public information board on the Jackson Street Bridge in Indiana were covered. A mile down the road, standard polyester coatings were applied on similar furniture for comparison. After two harsh winters, the polyester coatings already began to flake off, while Axalta® Powder Coatings still looked brand new.



Bridge structure under spanish climate

Plascoat® PPA 571 has been chosen to protect the steel and aluminium tubular parts of a footbridge located in northern Spain (San Sebastian), as an existing polyamide coating started to peel after only a few months. The search was on for a coating that could accommodate the substantial temperature fluctuations, provide a high level of UV resistance, provide protection against vandalism, meet the requirements of a tightening budget, and offer a coating which lasts over 10 years. Axalta coating met all of these requirements.



No under-film corrosion after years of exposure.

700 lamp posts in Finland

The fast-growing city of Tampere, located between two great lakes in Finland, started a new public transport project to ease traffic congestion in the city center, while also improving the environmental impact. The project involved two tram lines within the city center, as well as the installation of posts, lighting and supporting overhead lines along the route.



Aruba Airport solar energy project

In Aruba, a large part of the power is supplied by solar panels at the airport. For this large-scale solar energy project, featuring a roof with an area of 24,000 m² and 14,000 solar panels, a powder coating was used for the steel structure. The biggest challenge with this project was the Caribbean maritime climate of Aruba, nevertheless it was a success! The coatings are still looking great after several years now.





WWW.POWDER.AXALTACS.COM

Further information on our product portfolio

www.axalta.com/urban-furniture

www.axalta.co.uk/urban-furniture (United Kingdom)

www.axalta.cz/en-urban-furniture (Eastern Europe)

www.axalta.se/en-urban-furniture (Scandinavia)

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