

Galvacoat[®]



GALVANIZING

SINGLE APPLICATION PAINT FOR GALVANIZED STEEL



Galvacoat® is a one-coat solution when colour needs to be added to galvanized steel, either to complement existing branding or create a bigger visual impact. It is a tough, single application polyurethane topcoat that's specifically formulated to adhere perfectly to Hot Dip Galvanized steel.

It has excellent resistance to UV exposure and can be applied by brush, roller, air or airless spray.



While most standard paints are intended for use on ferrous metals, **Galvacoat®** has been designed exclusively for use on non-ferrous metals, and can be applied in a single coating - without the need for special etch primers. It adheres firmly to the galvanized surface and does not allow any salts to form, thus maximising adhesion and delivering a quality coating that can be typically expected to last up to 15 years.

Wedge Group Galvanizing Ltd are the UK supplier of **Galvacoat®**.



Timeless Fencing for Osterley Park Estate

As part of a major conservation and enhancement project, the **National Trust's Osterley Park Estate** recently undertook a full replacement of its estate fencing—some of which had stood for over a century.

The Traditional Company, a trusted supplier to the National Trust, was commissioned to manage the removal and replacement of the old fencing. The estate specifically selected the Highland range of Traditional Parkland Fence, known for its robust construction and classic aesthetic. In addition to the fencing, bespoke ironwork gates and end posts were crafted to harmonize with the park's historic landscape.

To ensure the new installation withstands the test of time, all steel components were galvanized by South East Galvanizers, part of the Wedge Group.

They were then finished with a protective black Galvacoat® coating—preserving both durability and visual authenticity.

David House, Director of The Traditional Company, commented:

“As an official supplier to the National Trust, we understand the importance they place on quality, longevity, and heritage. Osterley Park required a full fencing replacement that maintained its historic character. The team at South East Galvanizers delivered exactly what was needed with black Galvacoat®, ensuring long-term resilience without compromising on appearance.”

This upgrade not only enhances the estate's visual appeal but also minimizes future maintenance, preserving the legacy of Osterley Park for generations to come.



Benefits of Galvacoat® include:

- Specifically designed for hot dip galvanized steel.
- No etch primers required.
- Can be applied directly to both freshly galvanized steel and weathered galvanized steel.
- Available in all RAL and BS colours.
- **Save On Cost** - with its long-life properties, the lifetime cost of Galvacoat® is significantly cheaper than alternatives, which need to be replaced on a much more regular basis.
- **Gain On Longevity** - Galvacoat® retains its original colour to within 5% over a period of 20 years.
- **Easy To Apply** - just a single application will keep your surface looking its brilliant best for years to come, and Galvacoat® is suitable for all spray systems or brush applications.
- **Easy Onsite Touch-up** - unlike powder coating, Galvacoat® is extremely easy to touch up on-site.
- **Versatile** - Galvacoat® can be applied directly to freshly galvanised steel or as a fresh coat to galvanised steel that's been coated with conventional paints.
- **A Multitude of Applications** - use Galvacoat® on applications as diverse as balconies and gates, power and sub-station equipment, railings, street furniture, structural steel and water treatment plants.
- Galvacoat® can be used as a primer/base for most paint systems and as an alternative to T-wash or etch primers.



TECHNICAL DATA

Description	Galvacoat® is a 2 component polyurethane-acrylic anti-corrosion and adhesion top coat. It is specifically designed to adhere directly to new and weathered Hot Dip Galvanized surfaces.
Application	Galvacoat® can be applied by brush, roller or spray equipment. It has very good resistance to UV exposure and can therefore be applied as a one coat system in outside weathering conditions.
Active pigment	Zinc phosphate
Gloss	Matt / Satin 14=22 Gardner 60; Gloss 40-45 Gardner 60
Colour	All RAL and BS colours available
Density	1.3 - 1.4
Solid content	60% by volume
Theoretical yield	7.5m2/kg at 50 microns
Viscosity	Thixotropic
Dust free	1 hr
Tack free	4 hr
Hard	20 hr
Re-coatable	12 hr
Recommended thickness	40 - 120 microns
Potlife	6 - 8 hrs at 20C

Physical Properties

Drying Time

Surface preparation	<p>The galvanizing to be coated must be free of dust, rust, oil, grease and soluble salts (white rust).</p> <p>After welding, any damage to a galvanized film should be cleaned and any rust removed. A cold galvanised material with a minimum zinc content of 92% should be applied to the damaged areas at a minimum thickness of the galvanized film plus 10%.</p> <p>A combination of degreasing and steam cleaning is the optimum way to remove any dirt, grease and zinc salts.</p> <p>Wash down with fresh water.</p>
Use	Add the hardener to the base paint and mix well.
Dilution	<p>Airless application: Dilute 0-10% with thinner PU41</p> <p>Airmix application: Dilute 5-10% with thinner PU41</p> <p>Air assist application: Dilute 10-20% with thinner PU41</p> <p>Recommended spray nozzle size for airless spray: 0.015-0.017"; 50-80 degree angle</p>
Application conditions	<p>Relative air humidity : max 85% (no condensation on the substrate)</p> <p>Temperature during application and drying : 2C above the dew point. Never apply below 5C.</p> <p>Max. temperature during application : 40C</p>
For best application results remember:	<p>Always ensure that the galvanizing is clean and dry and that any zinc oxide (white rust) has been removed.</p> <p>Add all the hardener to the base and stir together well, once.</p> <p>Do not continually stir as agitating the material only serves to generate heat which reduces the pot life.</p> <p>Do not apply Galvacoat® when it is raining or the temperature is likely to go below 5C within 2-3 hours.</p> <p>When applying a light colour (white, yellow), it is advisable to stripe coat all edges and vertical surfaces with Galvacoat® before applying a full coat, as it is difficult to get sufficient material on an edge to cover in one coat of a light colour.</p> <p>Ensure that no more than three days passes between the cleaning down of the galvanizing and the application of Galvacoat®.</p>
Test results	<p>Galvacoat® has been adhesion tested to ISO 2409, BS 3900 part E6 (1992) and DIN 53151.</p> <p>Galvacoat® has been subjected to mechanical tests under DIN 53156 (Erichsen Cupping Test) and DIN 53153 (Bucholz Hardness).</p> <p>Galvacoat® has been salt spray tested to DIN 52155.</p> <p>All the above tests were carried out on Hot Dip Galvanized panels.</p>

Long-Term Protection with Galvacoat® for Mr Gates

Based in Berkhamsted, **Mr Gates** is renowned for delivering high-quality, handcrafted steelwork for a broad range of clients. From large bespoke gates and architectural structures to balconies and intricate commissions for local authorities, the company combines craftsmanship with durability in every project.

To meet the high standards expected by their clientele, Mr Gates relies on **Galvacoat®**—a specially formulated coating designed to protect galvanized steel from corrosion while enhancing visual appeal with a durable, coloured finish.

Sunil Chandarana, Commercial Director at Mr Gates, explained: “Our clients demand an exceptional standard of finish. With **Galvacoat®**, we’re able to provide that—offering long-term protection against corrosion along with a clean, natural sheen and the flexibility to incorporate colour into our designs. It’s quick and easy to apply, making it ideal for steelwork of any size or complexity.”

From gates and railings to balconies and custom architectural features, **Galvacoat®** has become a trusted part of Mr Gates’ process—helping to ensure each piece is not only visually striking but built to last.

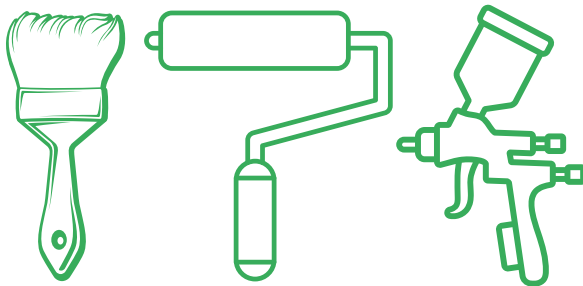
Whether exposed to the elements or installed in high-profile locations, the use of **Galvacoat®** allows Mr Gates to maintain their reputation for quality, craftsmanship, and longevity.



Practice for preparing new and weathered galvanizing for application of **Galvacoat®**

Old and/or weathered Galvanizing

- Clean down the galvanized steel using fresh water and a stiff nylon brush in order to remove oil, grease, soluble zinc salts and other contaminants.
- Allow to dry.
- Should there be any rust present it should be removed by mechanical methods.
- The exposed steel must then be repaired according to EN ISO 1461 or replaced.
- Any areas of fungal deposits must be coated with Fungex according to data sheet specification.
- Allow any Fungex to dry.



New Hot Dipped Galvanized Steel

- If the galvanized steel has been on site for longer than 7 days.
- Wash down with fresh water to remove any dirt, dust, grease or other contaminants.
- Allow to dry.

Previously painted Galvanized Steel

- Ensure the previous coating is adhering to the galvanized steel.
- If this is not the case, remove the old coating by mechanical means.
- Wash down and clean the coating with fresh water and a stiff nylon brush to remove any dirt, dust or other contaminants.
- Allow to dry.
- Any rusted areas must be repaired according to BS EN ISO 1461 or the galvanized steel replaced.

Galvacoat® is supplied in the UK through Wedge Group Galvanizing Ltd.

With over 155 years of history, Wedge Group Galvanizing is the UK's largest hot dip galvanizing organisation. With 14 plants strategically placed around the UK, enabling a truly national service for all galvanizing requirements.

The group are able to process anything from a 1.5mm washer to a 29 metre beam. All plants are designed and equipped to set industry leading standards for sustainability and low environmental impact.

Hot dip galvanizing is the most sustainable and environmental finishing process available to prevent corrosion.

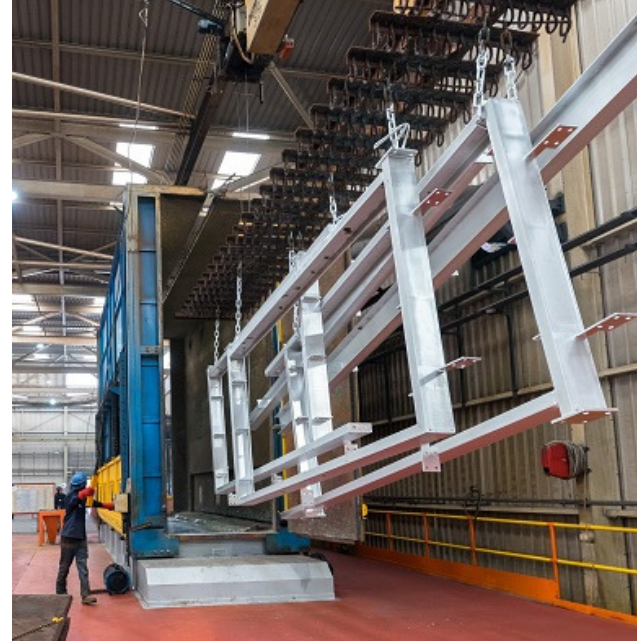
Galvanizing offers:

Durability – a permanently-bonded tough coating.

Long life – 70 years-plus maintenance-free.

Economic – lowest overall cost compared to other coatings.

Hygienic – easy-to-clean surface.







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