

***Galvacoat***<sup>®</sup>



**GALVANIZING**

**SINGLE APPLICATION PAINT  
FOR GALVANIZED STEEL**





02



Excellence **in Galvanizing**

**WEDGE**




# GALVACOAT®

**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 the adhesion and delivering a quality coating that can be typically expected to last for up to 15 years.



# CASE STUDY

## Provides long-term protection to leading steelwork manufacturer

Mr Gates operate from a workshop and offices in Berkhamsted to provide their clients with a range of hand-crafted and bespoke pieces, which includes large gates, architectural structures, balconies and specialist pieces for local authorities.

Sunil Chandarana, Managing Director at Mr Gates, explained: “Our clients request a very high standard of finish, and by using Galvacoat® we’re able to offer them the added reassurance of long-term protection against corrosion and rust from galvanized steel, whilst having the addition of colour, which gives a natural sheen and flexibility of design. It’s also a very quick and straightforward application, which works well on steelwork of any size and shape, so it’s a great all-rounder.”

They use Galvacoat® on a variety of projects including gates, railings, and balconies, to protect them against the elements, ensure longevity and to add a range of colour.



# SAVE TIME, SAVE MONEY AND ENJOY LONGER LIFE COATING

## Benefits of Galvacoat include:

- Specifically Designed for Hot Dip Galvanized Steel.
- No etch primers required.
- Can be applied directly to both freshly galvanized 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, and you can check our case studies for a number of examples of how well it weathers over time.
- 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.
- 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 coat for most paint systems and as an alternative to T-wash or etch primers.





# TECHNICAL DATA

	<b>Description</b>	Galvacoat® is a 2 component polyurethane-acrylic top coat. It is specifically designed to adhere directly to new and weathered Hot Dip Galvanized surfaces.
	<b>Application</b>	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.
	<b>Active Pigment</b>	Zinc phosphate
	<b>Gloss</b>	Matt / Satin 14=22 Gardner 60; Gloss 40-45 Gardner 60
	<b>Colour</b>	All RAL and BS colours available
<b>Physical Properties</b>	<b>Density</b>	1.3 - 1.4
	<b>Solid content</b>	60% by volume
	<b>Theoretical yield</b>	7.5m <sup>2</sup> /kg at 50 microns
	<b>Viscosity</b>	Thixotropic
<b>Drying Time</b>	<b>Dustfree</b>	1 hr
	<b>Tack free</b>	4 hr
	<b>Hard</b>	20 hrs
	<b>Recoatable</b>	12 hrs
	<b>Recommended Thickness</b>	40 - 120 microns
	<b>Potlife</b>	6-8 hrs at 20C



<b>Surface Preparation</b>	<p>The galvanizing to be coated must be free of dust, rust, oil, grease and soluble salts (wet storage stain).</p> <p>After welding, any damage to a galvanized film should be cleaned and any rust removed. A cold galvanized 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>Wash down with fresh water.</p>
<b>Use</b>	Add the hardener to the base paint and mix well.
<b>Dilution</b>	<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>
<b>Application conditions</b>	<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>
<b>For best application results remember:</b>	<p>Always ensure that the galvanizing is clean and dry and that any zinc oxide (wet storage stain) 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>
<b>Test results</b>	<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>





# CASE STUDY

## National Trust Osterley Park Fencing Updated

The estate's previous fencing, some of which was over 100 years old, had to be removed by The Traditional Company before being replaced with its Highland range of Traditional Parkland Fence, as specifically chosen by Osterley Park.

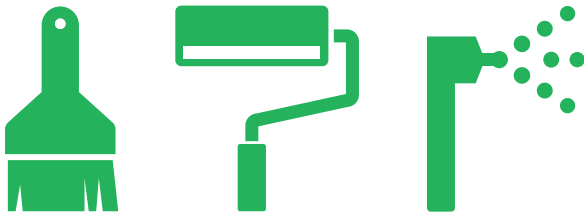
Bespoke ironwork gates and end posts were also made to complement the new surroundings, and all steel used was subsequently galvanized by South East Galvanizers, and coated with Galvacoat® in black – of which Wedge Group Galvanizing is the only supplier in the UK.

David House, Director of The Traditional Company, explained: "As an official supplier of The National Trust, we know that they focus on quality and longevity and that they were looking for a total replacement at Osterley Park. They specified galvanizing and we called upon the team at South East Galvanizers, and the wider Wedge Group, to supply us with black Galvacoat® to remain congruent with the previous aesthetics of the estate."

"Galvacoat® is specifically designed to adhere to galvanized steel and taking into account its overall lifetime cost, the finished products are significantly more cost-effective than alternative finishes, which need to be re-applied more frequently. Galvacoat produces a professional clean finish.

# APPLICATION

## Practice for preparing new and weathered galvanizing for application of Galvacoat®.



### Used in a variety of environments across different sectors.

- Marine
- Agriculture
- Oil and gas
- Rail
- Street furniture
- Road
- Construction
- Balconies
- Gates and fencing



### Old and/or weathered Galvanizing.

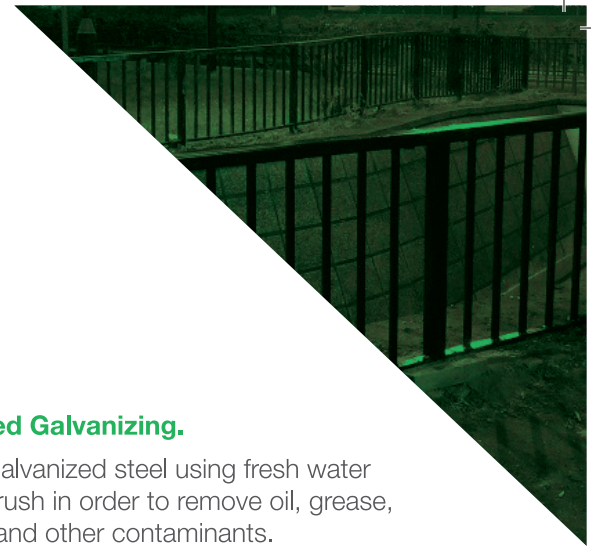
- Clean down the Galvanized steel using fresh water and a stiff nylon brush in order to remove oil, grease, soluble zinc salts and other contaminants.
- Allow to dry.
- Should there be any rust present it should be removed by mechanical methods.
- The exposed steel must then be repaired according to 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.

- 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 EN ISO 1461 or the galvanized steel replaced.





# ABOUT WEDGE GROUP GALVANIZING LTD

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

With 150 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 thick plain 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
- Hygienic – easy-to-clean surface
- Long life - 70 years-plus maintenance-free
- Economic – lowest overall cost compared to other coatings





70 YEARS  
PLUS LIFE



# CONTACT DETAILS

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