

Galvacoat[®]



**Sperrin
Galvanisers**



**Ensuring the Longevity
and Aesthetics of Your
Galvanized Steel**

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.



Galvacoat advantages:

- **Anti-graffiti properties (Galvacoat Extreme)**
- **Can be applied directly to freshly galvanized steel**
- **Can be easily applied on-site or in-house**
- **High volume of solids >60%**
- **No etch primers required**
- **Quick and easy to apply**
- **Retains its original colour to within 5% over a period of 20 years [possible to freshen up or touch up mechanical damage without significant colour variance]**
- **Specifically designed for Hot Dip Galvanized Steel**
- **Suitable for all spray systems and brush applications**
- **UV exposure resistance**

Galvacoat[®]

**15
YEARS**

Expected Lifetime

Galvacoat is a tough, single application polyurethane top coat specifically formulated to adhere to non-ferrous metals such as zinc.



Galvacoat can be used on:

- BALCONIES
- GATES
- POWER STATION EQUIPMENT
- RAILINGS
- STREET FURNITURE
- STRUCTURAL STEEL
- WATER TREATMENT PLANTS
- WINDOW BOXES

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. Galvacoat stands out for its effortless on-site touch-up capabilities.

Versatile. Galvacoat shines with its simple and accessible on-the-spot repair feature.



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.

TECHNICAL DATA

Description	Galvacoat is a 2-component polyurethane-acrylic adhesion coat. Galvacoat is specifically designed to be applied directly to all kinds of Galvanized steel including hot dipped galvanizing and give GTO adhesion.
Application	Galvacoat can be applied in thick coats by air or airless spray. Galvacoat has good resistance to UV exposure and can therefore also be applied as a topcoat in outside weathering conditions.
Active Pigment	Zinc Phosphate
Gloss	14-22 Gardner 60° - mat.
Colour	RAL and BS 4800
Physical properties	Density 1,3 - 1,4
	Solid content 50-58% by volume
	Theoretical yield 7.5 m²/kg at 50 microns
	Viscosity Thixotropic
Drying times	Dustfree 1 hr
	Tackfree 4 hrs
	Hard 20 hrs
	Recoatible 12 hrs
	Recommended thickness 40-120 microns
	Potlife 6-8 hrs - 20°C

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<p>Surface Preparation</p>	<p>The galvanized surface must be free of dust, rust, oil, grease and soluble salts (storage stain). A combination of degreasing and steam cleaning or cleaning with high-pressure waterjet is recommended for zinc surfaces. After welding, any damage to 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%. Wash down with fresh water.</p>
<p>Use</p>	<p>Add the Galvacoat hardener to the base paint and mix well. Mixing ratio: 92/8 by weight with harder 9975. 4/1 by volume with harder 9909/0699.</p>
<p>Dilution</p>	<p>Airless application: dilute 0-10% with Thinner PU41 Airmix application: dilute 5-10% with Thinner PU41 Air assist application: dilute 10-20% with Thinner PU41 Recommended spray nozzle for airless spray: 0,015-0,017", 50-80° angle</p>
<p>Application Conditions</p>	<p>Relative air humidity: max 85% (no condensation on the substrate). The temperature during application and drying: 3°C above the dew point. Max temperature during application: 40°C.</p>
<p>For Best Application Results</p>	<p>Always ensure that the galvanizing is clean and dry and that any zinc oxide (wet storage stain) has been removed. Add all the hardener to the base and stir together well, once. Do not continually stir as agitating the material only serves to generate heat which reduces the pot life. Do not apply Galvacoat when it is raining or the temperature is likely to go below 5°C within 2-3 hours. 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 the edge to cover in one coat of a light colour. Ensure that no more than three days passes between the cleaning down of the galvanizing and the application of Galvacoat.</p>
<p>Accelerated Drying</p>	<p>Accelerated drying is possible after 15 minutes flash off time. Galvacoat can be manipulated after accelerated drying of: 1 hour 60° C (metal temperature) 30 min. 80° C (metal temperature) 20 min. 100° C (metal temperature)</p>
<p>Test Results</p>	<p>Galvacoat has been adhesion tested to ISO 2409, BS 3900 part E6 (1992) and DIN 53151 Galvacoat has been subjected to mechanical tests under DIN 53156 (Erichsen Cupping Test) and DIN 53153 (Bucholz Hardness) Galvacoat has been salt spray tested to DIN 52155 All the above tests were carried out on Hot Dip Galvanized panels.</p>

GALVACOAT SPECIFICATION

ISO 12944:2018

Paint system for hot dipped galvanized steel for corrosivity cartegories C2 to C5-I and C5-M

Service Environment	Materials	Total Dry Film Thickness	Expected Coating Lifetime (yrs)
Atmosphere with low pollution C2 - Low	Galvacoat	80µm	>15 years
	Galvacoat	120µm	> 20 years
Urban and industrial areas, moderate sulphur dioxide pollution. Coastal areas with low salt content. C3 - Middle	Galvacoat	120µm	10-15 years
	Galvacoat	160µm	>15 years
Industrial areas and coastal areas with moderate salt impact. C4 - High	Galvacoat	160µm	5-10 years
	Galvacoat	200µm	>15 years
Industrial areas with high humidity and aggressive atmosphere. C5-I	Galvacoat	240µm	5-10 years
	2 x Galvacoat +1 x Galvacoat extreme	280µm	>15 years
Coast and offshore areas with high salt contact.C5-M	2 x Galvacoat +1 x Galvacoat extreme	300µm	>15 years

- The preparation must be carried out according to the instructions described in the technical data sheet. These preparations are essential for achieving the intended result.
- The product can be applied manually or using an air gun or airless. At least two coats are recommended for optimal result.



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