



Galco

Galvacoat[®]

THE PERFECT COUPLING

HOT DIP GALVANIZING & GALVACOAT

PAINT SYSTEM SPECIFICALLY DESIGNED
TO GIVE PERFECT ADHESION
TO HOT DIP GALVANIZED STEEL

HOT DIP GALVANIZING & PAINT SYSTEMS

DESCRIPTION

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

'These railings haven't been touched in sixteen years... [see case study on p. 4]

TECHNICAL CHARACTERISTICS

Adhesion is the key!

Most standard paints are designed for use on ferrous metals. Zinc is a non-ferrous metal and therefore it requires special etch primers. GALVACOAT® was specially designed for non-ferrous metals thereby eliminating the need for these etch primers.

If the wrong paint system is applied it can react with the galvanizing to form a layer of salts which causes the paint to lose adhesion over a period of time. GALVACOAT® adheres to the galvanizing and does not allow salts to form which means that for the life of the coating GT0 is achieved.

What is GT0?

This is test that looks at the adhesion of paint to steel (BS3900; Part 6). In this test the paint is cross cut to leave small squares which when tape is applied over them will rip from the steel and attach to the tape if the adhesion is not good enough. GT0 is achieved when the tape cannot remove any paint from the steel.

Expected Lifetime of GALVACOAT®

Corrosivity Category	Expected Coating Lifetime (yrs)	
	*Coating thickness	
	60 microns dft	120 microns dft
C1 Interior: dry	>10	>15
C2 Interior: occasional condensation Exterior: rural	>8	>15
C3 Interior: high humidity, some air pollution Exterior: urban inland or mild coastal	>5	>10
C4 Interior: swimming pools, chemical plants Exterior: industrial inland or urban coastal	>5**	>10**
C5 Exterior: industrial with high humidity or high salinity coastal	>5**	>10**

* Recommended application thickness for given lifetimes.

**Note: Specific site lifetime requirements to be agreed with Galco at time of specification.

Galvacoat®
standard

Galvacoat®
extreme



Can you afford such wastefulness?

ADVANTAGES

- ✓ Anti-graffiti properties
- ✓ 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



Available in all RAL and BS colours

Offers gloss level that will satisfy the most demanding projects
[Matt/ satin 14-22 Gardner 60°;
Gloss 40-45 Gardner 60°]

Physical Properties

- ▶ **Density:** 1.3 – 1.4
- ▶ **Solid content:** 60% by volume
- ▶ **Theoretical yield:** 7.5 m²/kg at 50 microns
- ▶ **Viscosity:** Thixotropic

Drying times

- ▶ **Dust free** 1hr
- ▶ **Tack free** 4hrs
- ▶ **Hard** 20hrs
- ▶ **Recoatible** 12hrs
- ▶ **Recommended thickness** 40-120 microns
- ▶ **Potlife** 6 - 8hrs at 20°

GALVACOAT® can be used on

- ▶ Balconies
- ▶ Gates
- ▶ Power and sub-station equipment
- ▶ Railings
- ▶ Street furniture
- ▶ Structural steel
- ▶ Water treatment plants
- ▶ Window boxes



HAVE YOUR STEELWORK GALVANIZED, PAINTED AND DELIVERED

TO SITE AS ONE PACKAGE. FOR FURTHER DETAILS GIVE US A CALL.

- ▶ Faster lead-times
- ▶ Large and small projects catered for
- ▶ Quality controlled and certified process
- ▶ Reduced transport costs
- ▶ Steel galvanized and painted under one roof

New Ballymun Still Looks to GALVACOAT® for Protection



In the early 1990s the Council decided that Ballymun was in need of urban regeneration. The Council took a ten per cent sample of the Ballymun estate – the Plunkett Towers – and began upgrading it. Security and the lack of play facilities for children were recurring complaints. New playgrounds secured by purpose built railings and entry gates to each block were constructed to help enclose and protect tenants and their children. The railings for each block were colour coded and painted with GALVACOAT®. Maintenance and durability were top of the Council's agenda and GALVACOAT® was specifically chosen as it met these requirements and avoided the need for etch priming.

"These railings haven't been touched in sixteen years and there's not one sign of chipping or flaking," remarked **Dan Moynihan, Area Engineer with Dublin City Council.** Mr Moynihan and his team have responsibility for the maintenance and upkeep of the wider Ballymun area. For them, GALVACOAT® was a major improvement saving both time and money.

UV protection and anti-graffiti properties in the paint make it a perfectly durable coating for the steelwork around the Plunkett Towers.

The Galvacoated railings were part of Dublin City Council's initial steps to rejuvenate Ballymun. While the revamp of the Plunkett Towers was a major improvement for the tenants and to the wider area, it was widely recognised that what was once state of the art infrastructure, servicing the towers was now out-dated. The Council took the decision to raze the towers and relocate residents into new, modern and self-sufficient villages nearby.

Given the success of the Plunkett Tower railings, the Council has taken the decision to finish the steelwork around the new housing areas in Ballymun with GALVACOAT®. Its adhesion properties, resistance to humidity, impermeability to sulphur dioxide, water and salt make GALVACOAT® the ideal product to finish any long-term steel project with. The multibillion Euro renewal project should be complete by 2013.



GALVACOAT® and laser technology give cutting edge to Scotch Hall

Developed by Edward Holdings and designed by Douglas Wallace, Scotch Hall is a landmark 200-million Euro mixed-use development on the Banks of the Boyne in Drogheda.

The local planning authority was keen to see the creation of a 24-hour living environment and so the need to create public spaces was vital to the overall design of Scotch Hall. As a result Douglas Wallace focused on conceiving a riverfront walkway that boasts restaurants, bars and a 100 bedroom, luxury four-star hotel.

Elegant white railings sweep along the quayside pedestrian walkways. Complex in construction they are inclined away from the river for both safety and aesthetics. Such a corrosive seaboard location demanded the protection of galvanizing if maintenance costs were to be minimised. Additionally, after fabrication, the railings were shot blasted to roughen the surface. This increases the zinc pick-up by about 50% in the galvanizing process giving the steel even greater protection. After hot dip galvanizing they were finished by Galco with white GALVACOAT®.

Winner: Best In-town retail scheme, BCSC Gold Awards 2006

Winner: Best Commercial Building of the Year, Louth County Council Design and Conservation Awards 2006

Highly Commended: Opus Architecture and Construction Awards 2006

Finalist: Property Week Retail and Leisure Property Awards 2006



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