



Product Description

Colourgalv is intended for use on any mild steel fabrication, including all types of architectural and structural steel. It involves the process of applying a two coat system of factory controlled applications. This will give corrosive protection for between 30-150 years, environment dependent, and aesthetic colour application of up to 25 - 30 years before first major maintenance.

The primer coat is hot dip galvanizing the metal substrate, in full accordance with ISO 1461:2009. Following this full mechanical and chemical pre-treatment must be applied prior to the application of the powder coating. The top coat is powder coating, and must be applied in full accordance with BS EN 13438:2005.

This coating is available in a wide stock range, including RAL colours, BS colours, textures, anti graffiti and warm to the touch technologies. Colourgalv has been specifically formulated using TGIC free technology. As an Architectural coating it gives excellent exterior & interior durability along with colour retention. Colourgalv conforms with the requirements of all the European Architectural finishing standards.

Applicator Conditions

Colourgalv must be applied by a full member of The Galvanizers Association, and an Akzo Nobel / Interpon approved applicator for powder coating on to a galvanized substrate. The applicator MUST be able to demonstrate relevant certification, and apply the coatings in full accordance with ISO 1461:1999 and BS EN 13438:2005. Full mechanical and chemical pre-treatment MUST be applied before each coating application. The galvanizing and powder coating MUST be applied by the same organisation, at the same location. The applicator MUST ISO BS EN 9001:2000 registered.

The applicator MUST be able to offer an optional guarantee to first major maintenance of up to 25 years, environment dependent. This guarantee should cover all aspects of the powder coating performance, as well as the bond between substrates.

Powder Properties

Chemical Type	Polyester
Gloss	30% + or - 5%
Particle Size	Suitable for electrostatic spray
Specific Gravity	1.2-1.7 g/cm ³ (dependant on colour)
Storage	Dry cool conditions below 25 degrees cent.
Shelf Life	24 months below 30 degrees C 12 months below 35 degrees C
Stoving Schedule	15 - 30 minutes at 180 degrees C 12.5 - 25 minutes at 190 degrees C 10 - 20 minutes at 200 degrees C (object temperature)

For any other gloss level or powder type requirement please contact your Colourgalv provider.

Test Conditions

The results shown below are based on mechanical and chemical tests which (unless otherwise indicated) have been carried out under laboratory conditions and are given for guidance only. Actual product performance may vary dependent on specific site circumstances.

Mechanical:

Adhesion	ISO 2409 DIN 53151 (2mm crosshatch)	Gt 0
Scratch Resistance	ISO 1518	Pass 200g
Flexibility	ISO 1519	Pass 5mm

Chemical:

Salt Spray	ISO 7253	Pass at 750 hours - No corrosion area more than 5mm from scribe
Acetic Acid Salt Spray	ISO 9227	Pass at 480 hours No corrosion area more than 5mm from scribe
Constant Humidity	ISO 6270-1	Pass at 1000 hours without blistering or loss of gloss
Sulphur Dioxide	ISO 3231	Pass 10 cycles - no blistering creep < 1mm from scribe
Permeability	Pressure cooker EN13438:2005 Part 5.3.11	Pass no defects after 2 hours
Chemical Resistance	Generally good resistance to dilute acids, alkalis & oils at normal temperatures	
Mortar Resistance	EN 13438:2005 Part 5.3.7	No effect after 24 hours

Weathering Tests :

Exterior Durability	ISO 2810 (Florida 12 months 5 degrees south)	No cracking, blistering or unacceptable colour change
Accelerated Weather testing	Sunset Original-Hanau- Quartzlampen ISO 11341	> 40 % Gloss retention after 1000 hours

Pretreatment:

For maximum protection it is essential to pretreat architectural components prior to the application of Colourgalv

Galvanized steel requires surface preparation by multi-stage pre-treatment using a conversion coating & then de-gassing prior to coating.

Application:

Colourgalv can be applied by manual or automatic electrostatic spray. For solid shades unused powder can be reclaimed using suitable equipment & recycled through the coating system. Detailed information & specific advice for special finishes are available upon request.

Post Application:

For advice on the suitability of post coating processes such as the use of sealants, adhesives, thermal break, cleaning & maintenance please consult your Colourgalv provider.