

Powder Coatings

Primers

Finishes

Special Finishes & Effects

HMG

Coatings (South) Ltd

www.hmgcoatings.co.uk



PAINTS

Going Further

We believe our role as a supplier of industrial coatings is to provide a comprehensive range of services to our high quality product ranges.

To this end we have invested heavily in some of the most technically advanced colour matching equipment available combined with formulation software which incorporates batch to batch historical data to ensure your latest batch matches the very first batch.



We have also invested in both solvent based and water based, highly accurate computerised dispensing equipment to deliver fast and reliable colour mixes time after time.

This allows a rapid turn around on colour to meet the next day response many customers now require. Batch retain swatches are kept for every batch produced



Batch to batch quality is maintained by both a visual and spectrophotometer colour check against the std or previous batch. We also check sheen against a standard or previous batch.

For longer term durability and corrosion testing we have access to the Lab in HMG Paints Ltd based in Manchester. Here we can arrange for Neutral and Acidic Salt Spray Testing as well as Accelerated Weather Testing.



Introduction to Powder Coating

Powder coating is a type of coating that is applied as a free-flowing, dry powder. Unlike conventional liquid paint which is delivered via an evaporating solvent, powder coating is typically applied by electrostatic spray and then cured under heat or with ultraviolet light.

It is usually used to create a hard finish that is tougher than conventional paint. Powder coating is mainly used for coating of metals, such as household appliances, aluminium extrusions, architectural cladding and fabrication, automobile parts and exterior signage to name a few.

Because powder coating does not have a liquid carrier, it can produce thicker coatings than conventional liquid coatings without running or sagging, and powder coating produces minimal appearance differences between horizontally coated surfaces and vertically coated surfaces.

Main Advantages

Powder coatings contain no solvents and release little or no amount of volatile organic compounds (VOC) into the atmosphere.

Powder coatings can produce much thicker coatings than conventional liquid coatings without running or sagging.

Powder coated items generally have fewer appearance differences than liquid coated items between horizontally coated surfaces and vertically coated surfaces.

A wide range of speciality effects are easily accomplished using powder coatings that would be impossible to achieve with other coating processes.

Curing time is significantly faster with powder coatings compared to liquid coatings especially when using ultraviolet cured powder coatings or advanced low bake thermosetting powders.

In more recent years durability has been enhanced by the introduction of powder primers which provide increase anti corrosion and edge coverage reducing the risk of corrosion starting from sharp edges

The main types of powder are Polyester, Polyurethane, Epoxy Polyester and Epoxy and each type offer there own particular properties.

Powders can be split into 4 main categories, Primer, Architectural & Industrial finishes, Functional coatings and Special Effects and in this brochure we cover our offering in all these areas.

Powder Coating - Primers

Epozinc ZL

Zinc Rich Epoxy Powder primer
Increased Zinc content
Maximum anti corrosion protection
Use as a base for multicoat system
Excellent adhesion
Chemical resistance
Good edge coverage

Epozinc 1000

Epoxy based zinc rich powder primer
Excellent protection on steel substrates
Part of a two coat system
Designed for corrosive environments
Use in coastal & industrial environments
Swimming pools Structural steel
Excellent adhesion and surface wetting
Good over coat ability if Green cured
1000 hours salt spray resistance



Above: Examples of premature corrosion failure

Above: Benefits of HMG primers



Eposeal

Designed to act as a water and air barrier
Anti degassing properties
Reduce effect of outgassing
Ideal for aluminium and steel castings
Excellent on Hot Dipped Galvanise (HDG) Suitable for zinc metal sprayed surfaces
Can be used with Epozinc 1000
Can be used as holding primer
Good Edge Coverage

NZP Primer

Epoxy Polyester powder primer
Formulated for blasted steel & zinc surfaces
Excellent anti corrosive protection
Excellent overcoat ability
Can be fully cured before overcoating
Can be used as a holding primer
1000 hours salt spray resistance
High Build
Good Edge coverage

Alloy Wheel Primer HGP Primer

Silver-grey epoxy polyester primer
Formulated for alloy wheels
Base coat for powder finishes
Can be coated with liquid wet paints
Excellent Levelling (smoothness)
Sand-able
Good Outgassing properties
Excellent adhesion

Epoxy Polyester Holding Primer
Barrier coat
Fully cured can be left for a number of weeks before overcoating
Zinc free
Can be over painted with powder or liquid paints



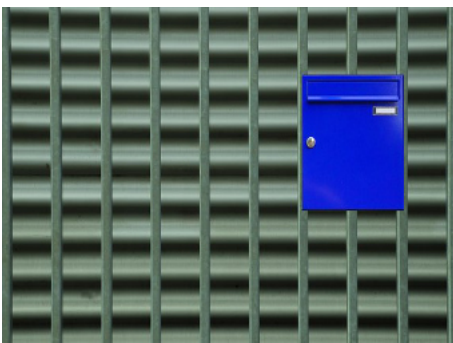
Powder Coating -Finishes

Architectural Polyester 827

Architectural Grade Polyester
Qualicoat Class 1 approved
Excellent exterior durability
Approved for use on London underground applications
Class 0 fire resistance
LUL approval

924 Architectural Polyester UV+

Architectural Grade Polyester
Qualicoat Class 2 equivalent
GSB Master
Suitable for areas where higher level of UV resistance is required
36 month Florida weather testing



Epoxy Polyester 617

Often referred to as hybrid powders
Main use is for items inc white goods, office furniture and enclosures
Interior coating with enhanced flow
Good mar resistance
Speed of flame Class 0
LUL approval

Epoxy 317

High chemical & solvent resistance
Good resistance to battery acids
Good water resistance
Ideal for brake linings
Water pipe protection
Pumps
Good heat resistance
Low sheens available
Internal coating

Textured Finishes Clear Polyester Finishes

Leatherette ideal for disguising imperfections in substrate with an attractive decorative appearance

Ripple Finish similar to leatherette but with larger more open development

Hammer ideal for disguising imperfections in substrate with an attractive decorative appearance

Grain Texture widely used on enclosures systems and consumer goods giving a distinctive fine grain finish

Polyester Gloss, Semi Gloss and 30% matt
Useful addition to change sheens on stock colours using clear over gloss or matt over colour to change sheen level

Clear 1582 - Super Clear smooth polyurethane powder gloss. High chemical resistance and hardness. Ideal over silver on wheels

Clear 4021 - Non Yellowing very clear matt polyester with good rub and marr resistance

Frost 4728 - Achieve a dead matt anodised effect over any existing colour



Powder Coating -Functional coatings



Polyester Nylon

Nylon reinforced
Excellent gloss and weathering
Very tough and wear resistant
surface coating
Good scuff and abrasion
resistance
Ideal coating for Hand Rails,
wheel
runners and Fence parts

Soft Feel 887

Velvet Matt
Exhibits a soft feel,
Warm to touch surface
Used on office equipment,
Domestic appliances
Components requiring tactile
properties

Camouflage Infra Red Reflective

Formulated to meet Def Stan 80-122
and Def Stan 00-23
Infra Red surface designed to mimic
the IRR signal of foliage
Excellent adhesion and good chemical
resistance

Very High Temperature (VHT)

Pleasing Fine Texture Black
Also available in Silver
Specialised silicone resins
Applications inc Flues, heat exchangers
Exhaust mufflers
Heat resistant to 500 Deg C
Matt finish



Anti Graffiti & Super Durable Clear

Excellent UV Resistance
Super Durable powder
Effective Anti Graffiti Protection
Clear that can be applied over a base
colour to upgrade to Anti Graffiti
Suited to street furniture,
Architectural cladding subject to graffiti
Can be cleaned with Xylene , acetone, or
proprietary graffiti remover
Aerosol paints and marker paints can be
removed without damaging the surface

Anti-Microbial Powder

Incorporates silver glass complex that
Antagonises the settlement of
micro-organisms on the surface
Available in Epoxy or Polyesters
Typical uses on lockers, cabinets,
Also used on metal furniture used in
situations requiring anti-bacterial
surface coating

Special Effect Powders

Over the past 10 years HMG Powder Coatings have been developing a range of special effect powder coating finishes. These are broken down into 3 Ranges. The Signature Range, Anodic range and most recently the Latent Range.

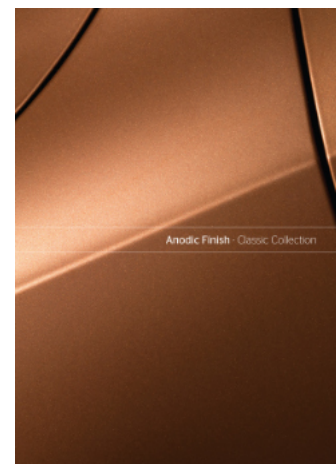
Signature Range

This is a range of Specially developed finishes including Candy Finishes, Iridescent's, Metallics, Silvers and clear coats containing metallic flakes as well as super clear Lacquers. The range is very much a mix and match system enabling you to create your own special effect finishes
Examples on next page



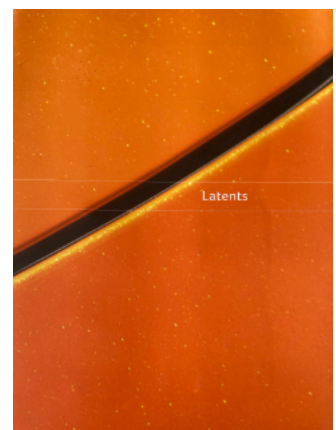
Anodic Range

The Anodic Finish - Classic Collection is a range of elegant colours available ex Stock from HMG. The colours have been designed to compliment the EURAS anodised colour range and can be used as an attractive alternative to anodising, or for achieving an anodised appearance on non aluminium substrates such as steel.



Latent Effects

Latent effects are a range of stunning special colours. They are the base part of what is probably the most user-friendly two-coat system on the market. When over-coated with an appropriate clear lacquer, the colour effect is comparable to an expertly-applied Candy transparent clear over base effect system.



Signature Finish.

A stunning range of finishes for the custom styling industries. Add a flash of colour your design elements. Choose from candy and coloured lacquers, fluorescents, sparkles, pearls and metallic effects. Protect coatings with ultra clear lacquers in high gloss or dead matt.

					
Audi Grey 4364 Smooth matt charcoal effect single coat	Chrome 2910 bonded silver. Requires clear lacquer	Anthracite 1629 Smooth gloss charcoal. Single coat	Ultra Chrome 4617 Super Bright Silver Requires a clear coat	Deutsche Silver 4476 Bright bonded silver use as single coat or with lacquer for gloss	Sovereign Silver 2015 Silver Can be used as single coat or base for candies
					
Olive Copper Sparkle 4739 3D Sparkle in a clear over black	Amethyst Sparkle 4741 3D Sparkle in a clear over black	Brass Sparkle 4740 3D Sparkle in a clear over black	Copper Sparkle 4738 3D Sparkle in a clear over black	Bronze Sparkle 4737 3D Sparkle in a clear over black	EmeraldGreen Sparkle 4739 3D Sparkle in a clear over black
					
Gold Sparkle 4246 3D Green Gold Sparkle in a clear over black	Sapphire Blue Sparkle 4656 3D Sparkle in a clear over black	Ruby Gold 4010 Iridescent flip flop in a clear over black	Blue Indigo 4009 Iridescent flip flop in a clear over black	Crystal Pearl 4022 3D pearl pigment in a clear over black	Disco Lights 4459 Rainbow sparkle in clear over black
					
Purple Candy 2 4325 Shown over Sovereign Silver	Candy Red 3 3723 Shown over Sovereign Silver	Candy Blue 2 3720 Shown over Sovereign Silver	Candy Emerald Green 3725 over Sovereign Silver	Candy Lime Green 4303 over Sovereign Silver	Candy Black Smoke 4255 over Silver Chrome
					
Blue Ruby Iridescent 4480 over Silver Chrome	Transparent Copper 1 4347 shown over Silver Chrome	Gold 4223 Greenish Gold Single Coat	Copper 4225 Single Coat Finish	Racing Bronze 4573 Matt Bronze high flash with deep flop	Bronze 4224 Deep relish bronze Single coat finish
					
Shimmering Gold 4478 Sparkle in clear over Silver Chrome	Candy Orange 3721 over Sovereign Silver	Candy Cranberry 4749 over Sovereign Silver	Candy Rose Gold 4759 over Ultrachrome	Velvet Black 3891 Dead Matt Black finish	Alloy Wheel Black 3825 High gloss 95%
					
Baby Pink 4481 Solid Pink finish	Vivid Green 4482 Solid Green Finish	Shocking Pink 3574 Fluorescent Hot Pink Over white 1472	Neon Yellow 4550 Fluorescent yellow Over white 1472	Fire Orange 2479 Fluorescent Orange Over white 1472	Aztec Yellow 4550 Fluorescent yellow over Silver Chrome 2910