

# Metal Finishing

Pre treatments  
2 Pack Primers  
2 Pack Finishes

# HMG

Coatings (South) Ltd

[www.hmgcoatings.co.uk](http://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 Metal Finishing

The protection of metal can be in many forms and is carried out for many reasons that include  
Increasing the life of the product

Protect the substrate from external conditions

Corrosion Resistance

Chemical Resistance

Fire Protection

Reduce slip

Cosmetic appearance

When deciding which coating system is most suitable a combination of the things need to be taken into account.

The first major influence on the choice of coating system is the type of metal to be coated. This can range from Ferrous and Non Ferrous substrates and includes, rolled steel, mild steel, wrought iron, stainless steel, aluminium, brass & copper to name a few

Secondly the required life of the product which could range from a few years up to 20+ years depending on what is being painted. The longer the required life the more pretreatment, higher film thickness and higher cost coating types. This must be weighed up against the value of the item, performance requirements and cost of future downtime and maintenance.

The first stage of any metal coating system is the pretreatment. It is essential this is correct as it is the build block of any system, get this wrong and the whole system will be compromised.

Pretreatment can range from surface blasting, chemical etching, mechanical abrasion / cleaning through to rubbing down with abrasive papers and degreasing with solvents

Other forms of protection can be incorporated as part of the coatings system to increase life expectancy and performance. These include Hot Dip Galvanising, Hot zinc and Aluminium spray, Anodising, Chromate free conversions and many more.

Next application method needs to be considered from basic brushing, roller, dipping, Conventional Spray, Airless Spray the application method will also have an influence on the final coating system.

We have split down our coatings systems into 3 main types.

Single Pack System - Easier application, No pot life, Lower cost

Two Pack System - Excellent finish, extended life, increased chemical resistance, harder wearing

Protective Coating System - Heavy duty protection for severe conditions over extended periods

We have compiled a Downloadable Digital brochure for each. Our team of experienced sales representatives are also always pleased to help you with your choices .

# Pre-treatments

## Ferrozinc Rust Convertor

High Performance water based rust convertor  
Easily applied  
Spray, roller or brush application  
Colour change indicates when rust is neutralised  
Out -performs other rust conversion products  
Ideal preparation when blasting is not possible  
**HMG Brand**

## Mordant Wash (T Wash)

Manufactured to original formulation used by  
British Rail  
Etching solution for Galvanised steel and zinc  
surfaces  
Galvanised surface turns black when  
application has been successful  
Easy application by brush or spray  
Use in conjunction with Powder and wet paints  
**HMG Brand**



## ST3000 2K Chromate Free Etch

New Generation of Chromate Free Etch  
Replacement for chromate etch  
Very fast drying  
Excellent corrosion resistance  
Overcoats with single and two pack products  
Can be used in stoving systems  
Can be used under powder coating  
Salt Spray in excess of 1000 hours  
Virtually same appearance as chromate etch  
Applied at a DFT 5-10 microns max  
**HMG Brand**

## SAH11 Chromate Free Etch Coloured Primers

Unique chromate free etch  
Virtually any solid colour can be made  
Can be used as a 2 Pack (KR08 activator)  
Can be used as single pack (2691 thinner)  
Fast drying  
Anti corrosive  
For use in Single and 2 pack systems  
Can be used in Stoving systems.  
**HMG Brand**

## Degreasing Products

Prepclean Range -**HMG Brand**

2801 Mild anti static for painted surfaces  
2802 Solvent based heavy duty bare metal  
2803 Low odour slow evaporating bare metal  
2804 Water based degreaser for bare metal

Own Label -**Synergy Brand**

H30 - Economic strong fast for bare metal  
Panel Wipe - Mild solvent degreaser

## LMC Black Etch

Supplied at a viscosity ready for Dip or  
Spray  
Provides an excellent base for single  
pack  
and two pack systems  
Originally developed to pre treat  
replacement aluminium body panels in the  
automotive industry  
Anti Corrosive properties  
**HMG Brand**



# Paints for Metal - 2Pk Primers

## Epiprime ZM

2 Pack Epoxy Micaceous Iron Oxide  
Excellent abrasion and moisture resistance  
Can be used as intermediate build coat  
High protection coat in harsh environments  
Marine environments.  
MIO provides an overlapping metal barrier  
High Build  
**HMG Brand**

## Epiprime 2k Epoxy Primer

Polyamide Epoxy Cured  
Excellent Adhesion  
High Build Protection for Steel  
Excellent water and chemical resistance  
Full epoxy without modification  
Contains Zinc Phosphate  
**HMG Brand**



## 2Pk Epoxy Zinc Rich Primer

Conforms to BS5493 Organic zinc rich  
90% metallic zinc in dry paint film  
Provides extended life  
Cathodic Protection for blasted steel  
Use in Heavy Duty paint systems  
Excellent chemical, moisture, solvents and severe atmospheric exposure conditions  
**Synergy Brand**

## Electrozinc

2 Pack Epoxy Zinc Rich  
Quick Drying without aeration problems  
Can be used as intermediate build coat  
Cathodic Protection for blasted steel  
1<sup>st</sup> Coat in very protective system  
Matt Grey finish  
Can be rubbed with wire wool to give galvanised effect  
**HMG Brand**

## Hydroprime 2K Epoxy

Water based 2k epoxy  
Excellent adhesion  
Anti corrosive resistance  
Multi substrate primer  
Can be over coated with most finishes  
High Quality water based system  
Use with Hydrothane water based finish  
**HMG Brand**

## EP2 Epoxy Primer

Medium Solids Epoxy  
Excellent adhesion to steel  
Suitable for plastics inc DCPD and SMC  
Can be over coated wet on wet  
Available in virtually any colour  
Excellent primer for trailers  
Agricultural equipment  
Machinery used in difficult conditions  
**HMG Brand**



# Paints for Metal - 2Pk Primers



## Polycote MPS 4 & 1

Isocyanate cured Polyurethane Acrylic  
Fast drying  
Very good build  
Low sinkage  
Can be recoated wet on wet in 45 mins  
Excellent flattening characteristics  
Contains anti corrosive pigments  
Can be used on Steel,  
Aluminium (following etch)  
Many plastics and GRP.  
Also used to prime MDF  
Excellent gloss hold up  
**HMG Brand**

## Polycote HS Rapidbuild 2K Primer

2K isocyanate primer filler  
High Build intermediate coat  
10-15 min touch dry primer  
Sand within 1 hour  
Use as a surfacer applied in thin coats  
Good filling and sanding properties  
**HMG Brand**

## Polycote 2K MU Primer

Acrylic Polyurethane Primer surfacer  
Excellent adhesion to steel  
Anti corrosive protection  
High Build  
Wide range of colours can be made  
Early Sanding properties  
**HMG Brand**

## Polyester Spray Filler KF8

2K Heavily Bodied Sprayable filler  
Excellent primer filler for cast metal  
Aids smoothing out cast metal surfaces  
Widely used in automotive finishes  
Rapid drying  
Can be used as high build grain filler  
on wood and MDF  
Can be used on MDF templates use  
in producing GRP mouldings to  
produce ultra smooth surface  
**HMG Brand**



## Max 17 Anti Slip 2Pk

Ideal for metal road and pedestrian plates  
Latest Epoxy/Acrylic technology  
Touch Dry as quick as 60 mins  
Good resistance to common Chemicals  
Excellent anti slip  
SRV 86 (Dry) very low slip potential  
SRV 45 (Wet)  
Back in service overnight drying  
Wide range of colours available  
**Synergy Brand**

# Paints for Metal - 2Pk Finishes

## Epilife 2 Two Pack Epoxy

Quality non modified 2K Epoxy Finish  
High levels of adhesion  
chemical and solvent resistance  
Sheen levels from matt to gloss  
1000's of colours from colour library  
Specially matched customer colours  
Skydrol Resistant  
For use on structural steel and equipment  
Protection in severe conditions inc  
Marine, sewage and chemical plants  
Can also be used on concrete floors  
Will chalk on exterior exposure to VU  
**HMG Brand**

## Nisocoat 2 Iso Free 2 Pack Acrylic

High quality Isocyanate Free 2K Acrylic  
Good chemical and solvent resistance  
Alternative to 2K polyurethane  
Safer to use than Isocyanate finishes  
Good colour and Gloss retention  
Fast Drying  
Sheen levels from matt to gloss  
1000's of colours available  
Specially matched customer colours  
Sheen levels from matt to gloss  
**HMG Brand**



## SC601 2K Polyurethane

High quality 2K Isocyanate Polyurethane  
Developed for consistent lower sheens  
Matt to gloss available  
1000's of colours available  
Specially matched customer colours  
Suited to high quality panel work  
Exterior quality  
High quality sign and equipment finish  
Can also be used on many plastics and  
GRP  
**HMG Brand**

## UB25 High Gloss 2K Polyurethane

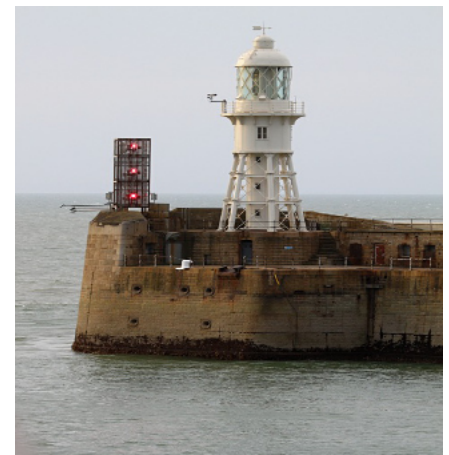
High quality 2K isocyanate Polyurethane  
Ultra high gloss finish  
Exceeds BS 6250 severe use  
Excellent flow and wet edge  
Exterior durability and colour retention  
Used on exterior signs, OEM,  
Structural steel in marine environment  
Can be used on some plastics and GRP  
**HMG Brand**

## Acrythane A211

High quality 2K Polyurethane Acrylic  
Excellent flow and hardness  
High quality finish on steel frames  
Can be textured to give pleasing finish  
Ideal on control panels  
Superb durability & abrasion resistance  
Can be force dried  
Suitable for many plastics & GRP  
**HMG Brand**

## Superthane 2 Pack Polyurethane

Ultimate levels of Protection  
Designed for marine environments  
Maximum chemical and solvent resistance  
Suitable for use on metal, many plastics & GRP  
Ideal choice for maximum protection  
Marine structural steel plant equipment in  
chemical plants,  
Maximum exterior durability in aggressive areas  
1000's of colours available  
Specially matched customer colours  
Anti graffiti coating  
Lower sheen version called Supersheen  
**HMG Brand**



# Paints for Metal - 2Pk Finishes

## Monothane 2K Direct to Metal

2K Polyurethane direct to metal  
Ideal chassis coating  
Anti corrosive  
Excellent salt spray results  
Satin and Gloss versions  
Compliant Coating if used with 9039  
Fast curing and can be force dried  
Compliant spray gun, Airless spray,  
1000's of colours available  
Specially matched customer colours  
**HMG Brand**



## Multisurface 2 Pack Polyurethane

Durable 2K polyurethane  
Very fast drying  
Direct application to many substrates  
Glass, Copper, Brass, Stainless  
Aluminium, Zinc, Anodised,  
Foamex, Plastic, Acrylic  
GRP and Kevlar  
Matt to Gloss sheen levels  
1000's of colours available  
Specially matched customer colours  
**HMG Brand**



## Acrythane ACE

High performance 2K Acrylic Finish  
High solids, low VOC topcoat  
Target markets  
OEM, Commercial Transport  
Construction & Agricultural Equipment.  
Anti-sagging and anti-marring properties  
Airless, air assisted or pressure pot  
Excellent flow characteristics  
Superior high gloss finish.  
**HMG Brand**



## Hydrothane

Water based Isocyanate 2K Polyurethane  
Excellent Chemical & Weathering resistance  
Anti graffiti properties  
Fleet, RAL, B, Std and Custom made shades  
Used in conjunction with Hydroprime  
Compliant paint system  
**HMG Brand**



## Iso free 2K Hammer Finish

Application to wide range of substrates  
Ideal finish to disguise poor substrates  
Fast drying with good adhesion  
Wide colour range  
Widely used on castings  
**Synergy Brand**