



UPS 907 MC Metallic & GRP Primer is a solvent based two component primer suitable for use on a wide range of metallic and GRP surfaces prior to the application of Unique finish systems.

Product Features

- Combines good application characteristics with excellent adhesion to correctly prepared surfaces.
- As a primer, it offers proven long term corrosion protection of ferrous and non ferrous metallic surfaces.
- Extended over coating window for a wide range of top coats.
- Can be applied by brush, roller or spray.

Product Applications

Primer coat for metallic surfaces, both ferrous and non ferrous, and GRP surfaces.

Before proceeding, please read the following information carefully to ensure that the correct application procedure is fully understood.

Surface Preparation

All surfaces should be thoroughly degreased.

Steel

Mechanically abrade with 120 grade paper.

Galvanised Steel

New galvanising only requires degreasing. Weathered galvanising should be abraded to remove corrosion deposits.

GRP

Surfaces should be abraded using 180 grade abrasive paper.

Application Procedures

Product Mixing

Stir the contents of the Base component. Continue stirring whilst gradually adding the total contents of the Activator container. Continue stirring until a homogenous mix is obtained.

Note: When mixing complete units of product, the use of a slow or variable speed mechanical mixer is beneficial in terms of ease and complete mixing.

Application

- Do not apply when relative humidity exceeds 90% or when the surface to be coated is less than 3°C above the dew point.
- For optimum results a minimum material and substrate temperature of 7°C is necessary.
- UPS 907 MC can be applied by most types of spray equipment, brush and roller.

The product is supplied ready for use by airless or air assisted spray.

The product will require thinning for application by conventional spray, where the minimum quantity of UPS TAC 882 Epoxy Thinner required for optimum atomization should be used.

Typically this is up to 10% volume.

Detailed guidance on the spraying procedures is available from the *Technical Centre*.

Typical Spray Settings Are;

Airless Spray Tip Size 13 – 15 thou
Conventional Spray Pressure Pot. Needle Setup 1.4 – 1.88mm

Note: When airless spray is being used, excessively high tip spraying pressure should be avoided. The minimum pressure at the pump conducive with good atomization should be used.

All equipment must be cleaned immediately after use with UPS TAC 882 Epoxy Thinner.

Physical Constraints

Colour	Light Grey and White	
---------------	----------------------	--

Mixing Ratio	Base	Activator
By Volume	3	1

Drying & Cure Times at 20°C (68°F)	
Useable Life	8 hours
Touch Dry	4 hours
Hard Dry	16 hours
Minimum Over Coating	16 hours
Maximum Over Coating	3 months
Full Cure	7 Days

Volume Solids	50%
----------------------	-----

Specific Gravity	1.34
-------------------------	------

Film Thickness (Typical)	100 microns wet 50 microns dry
---------------------------------	-----------------------------------

V.O.C	475g/litre as supplied 510g/litre thinned 10%
--------------	--

Theoretical Coverage Rate	10m ² / litre @ 50 microns dft
----------------------------------	---

Shelf Life	
Use within 2 years of manufacture date. Store in original sealed containers at temperatures between 5°C (40°F) and 30°C (86°F).	

Physical Properties

Abrasion Resistance CS17 Wheel ASTM D 4060	70mgm weight loss per 1000 cycles – 1kg load
---	--

Impact Resistance BS 3900 – E3	Direct – 5mm (0.2 inch) Reverse – 2.5mm (0.1 inch)
---	---

Dry Heat Resistance ASTM D 2485	100°C (212°F)
--	---------------

Direct Pull Adhesion ASTM D 4541	3.8N/mm ² (550 psi) (Abrasively Blasted Steel)
---	--

Salt Fog Resistance ASTM B 117	500 hours
---	-----------

Humidity Resistance BS 3900 – F2	500 hours
---	-----------

Scratch Resistance BS 3900 – E2	No Failure 2.5kg (5.5 lbs) load
--	---------------------------------

Packaging

UPS 907 MC is supplied in the following;

5lt
20lt

Health And Safety

As long as normal good practice is observed UPS 907 MC can be safely used. Protective gloves should be worn during use.

A fully detailed Material Safety Data Sheet is either included with the material or is available on request.

The information provided in this Technical Data Sheet is intended as a general guide only and should not be used for specification purposes. The information is given in good faith but we assume no responsibility for the use made of the product or this information because this is outside the control of Unique Polymer Systems LTD. Users should determine the suitability of the product for their own particular purposes by their own tests.

Unique Polymer Systems LTD
Unit 1 Bankside Industrial Estate
Little Marcle Road
Ledbury
Herefordshire
HR8 2DR
United Kingdom