



## 2K Liquid Metal Paint Technical Data Sheet

### DESCRIPTION

Metal Veneers is a specially formulated liquid metal paint that's easy to use for even the most discombobulated novice paint user. Our carefully guarded recipe combines real metal elements to provide the very best pure metal finish for patrons with even the most exacting of tastes. Our liquid metal paint method allows you to coat almost any surface in a layer of real metal paint to give you the most natural metallic finish on the market.

For most plastics MDF and wood we recommend our 2k Tough as Nails spray can with built in curing agent as a base primer.

Most types of 2k primers will be suitable as a base apart from Epoxy primers.

For external use on the coated items we recommend you apply Everbrite's Protector Clear this is applied with a cloth and will give you high UV protection with a 6h pencil hardness.

All of our finished items can have a patina solution applied; at the moment we only supply a chemical for the Copper to create (Verdigris) and the Iron (rust). This is one solution that will do both.

There are loads patina solutions on the open market that will work with our other metals to create an aged affect.

### COLOUR AVAILABILITY

- Alpha Bronze
- Copper and Robbers
- Brass Monkeys
- Iron Horse
- Tin Man

### CONTENTS OF KIT

- 2K Metal Base Resin
- 2K Metal Fixing Agent
- Metal Additive
- Thinner

### SHELF LIFE

24 months unmixed

Pot life once mixed: 1.5 hours

### GUN SET UP

Ideally using a 3M PPS paint pot system or something similar

Small to Medium sized surfaces: 1.8mm- 2.0mm

Large surfaces 2.5mm

### AIR PRESSURE

30- 45 psi at the gun

### PREPARATION

For the Metal Veneers paint to form a resilient bond with the surface, the correct preparation of the substrate surface is crucial. This product is best applied over a 2K primer that has been fully cured and abraded with a 180-grit sanding disc, **the only exception to this is when using the TIn we advise to use 240 grit.**

Epoxy primers should not be used.

### MIXING RATIO WEIGHT

500g of mixed product will cover 1000x500 flat panel with plenty left over for sample parts.

Total Amount of Paint Required (g)	Amount of Metal Base Resin (g)	Amount of Metal Fixing Agent (g)	Amount of Metal Additive (g)
200	25	25	150
500	62.5	62.5	375
1000 (1Kg)	125	125	750
1500 (1.5Kg)	187.5	187.5	1125
2500 (2Kg)	312.5	312.5	1875

### Thinning Metal Veneers (add thinner to the total mix)

Tin, Brass, Bronze, Copper 1% - 2%

Iron 3%

Mix thoroughly until the paint has a smooth, creamy consistency with no lumps of pigment.

Do not filter before use - if using a 3M PPS system, remove the filter from the lid before use.

Shelf life once mixed: 1.5 hours

### APPLICATION

**Please note:** due to the heavy nature of the pigment particles, paint must be sprayed immediately once dispensed into the spray gun.

If the spray gun has been put down for a few minutes it good practice to lay the spray gun on its side, If you are not using a 3M PPS paint pot system it's a good idea to back blow the spray gun by covering the spray cap with a cloth and spraying the trigger this will back blow the air into the paint pot this will help disperse the metal pigments into the resin.

Remember to shake the spray gun every now and again to ensure the paint is mixed well.

When refilling the spray gun ensure the paint has been stirred well as this paint is very heavy it will start to sink to the bottom of the can.

It is imperative that the paint is applied as evenly as possible with no runs or drips.

Apply a good wet coat with a 50% over to ensure the whole area looks wet

Depending on spray gun set up you will need to hold the gun a lot closer to the surface than normal 2k paint due to the weight of the paint.

We highly recommend you use a 3M PPS paint system.

As with all specialist paints we would recommend you spray and polish back some test pieces before you try the paint on your project.

If spraying a complex shape with sharp edges or high detailing, it is recommended to give all the high areas a wet coat first. Allow to flash off for 20 minutes, followed by a good wet coat. This will prevent breaking through during polishing.

### **ROLLER APPLICATION**

We have had some great results when using a roller to apply this product; we found the mini rollers were best both long hair and foam gave great results and a nice flattish pattern once dry.

But please remember when rolling on our paints this is an industrial product that contains isocyanates.

We would recommend you read this COSHH data sheet PDF from

[www.hse.gov.uk/pubns/guidance/mr4.pdf](http://www.hse.gov.uk/pubns/guidance/mr4.pdf)

### **DRYING**

Allow 18 hours drying time at constant 19°C

Alternatively, leave the item to fully flash off for 20 minutes.

Place into a preheated oven at 55°C for 45 minutes.

### **FINISHING**

Satin finish:

Use medium – medium wire wool to remove the surface layer to reveal the metal underneath

Follow by a metal polish (such as 'Autosol')

Gloss finish:

Start by using a 400 grit polishing paper (mainly for Iron)

Then move to 600 grit polishing paper

Then 1200 grit paper

Then 3000 Trizact disc

The polishing process will create heat from the friction. Leave the item to one side to rest before the final stage.

Apply a metal polish such as 'Autosol' or any heavy cutting compound, for example 3M Fast Cut or Farecla G3 all work very well to bring out a lustrous shine

Please visit our Metal Veneers's Utube channel to watch one of our lab technicians go through the process.

### **PATINATION EFFECTS – Metal Veneers Antiquing Solution**

Verdigris -

For an aged copper effect use our Antiquing solution to produce the blues and greens they call Verdigris, you will need to fill the supplied bottle up with water then leave for 5 min for the powder in the bottom to dissolve, then saturate the surface. You will notice the solution will bead up you will need to rub this in well using a scotch pad or 320 240 paper.

On copper you will see the effect start to turn after 2 hours, you can apply more to the surface after this time but no need to rub it it just spray either in spots or the whole item, the colours will become brighter with the more layers you apply.

RUST-

To create rust again follow the instruction above this time only apply 1 wet layer and leave for 24 hours, do not apply more coats between or you will get a very dark rust after the 24 hours has passed.

If after this time you want a darker rust or create rust runs or patchy effect no need to rub it in just spray in the areas you need.

### **AFTER CARE-**

This coating creates a real exposed metal surface and so will oxidise like any metal. For internal items use our microcrystalline wax to protect the surface and prolong the high shine.

Or for an even more durable surface use Everbrite coatings like there Protector clear product, this will enable you to keep that true metal look and feel with a 6h pencil hardness and UV protection.

[www.everbritecoatings.co.uk](http://www.everbritecoatings.co.uk)

### **CLEANING**

Solvent based gun wash (thinners) should be used to clean all apparatus after use.

### **HEALTH AND SAFETY**

#### **IMPORTANT:**

Please read all material safety data sheets for all products before use.

*Due to the inability of our company to anticipate or control conditions whereby our products will be employed, we do not represent or guarantee that any of our products are fit for a particular purpose. Our products should be tested by users to determine suitability for a particular purpose. We disclaim responsibility for claims and damages beyond replacement of any defective product. There are no warranties which extend beyond the description on the face here of.*

