

PHOENIX PAINTS PTY LTD

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Manufacturers of Quality Paints and Protective Coatings

PRODUCT INFORMATION SHEET

"MAXICOAT" **(Water-Based 2 Pack Epoxy Top Coat)**

(A) DESCRIPTION:

PHOENIX "MAXICOAT" is a 2 Pack Water-Dispersed Top Coat which not only exhibits the physical and chemical strengths of epoxy, but also the safety and convenience of water as the solvent. The product is supplied in two packs, PART A is the resin base plus pigments etc, and PART B is the hardener for the coating. **MAXICOAT** is designed for use both as a full gloss top coat and also as a high performance concrete coating for workshop floors and motor car showrooms, etc.

MAXICOAT has a similar high hardness, gloss level, and chemical resistance to an oil-based epoxy, but is much safer and easier to handle. Immersion tests carried out at room temperature indicate no effect in dilute acids, alkalis, seawater, and solvents (See below for further information).

Since the product is water-based, it is easy and safe to use, and there are no hidden costs since no expensive, dangerous, explosive, or toxic solvents or thinners are required for clean-up — only water.

Major Features:

Since **MAXICOAT** is "acrylic" in nature, the films produced are not prone to cracking, chipping, or peeling.

The product is available in a range of colours, including white, red, green, golden yellow, blue, black, and a wide range of pastel shades, e.g, light grey, beige, sky blue, etc. **MAXICOAT** is also ideal for surfaces which may flex slightly and it can tolerate the presence of water, including salt water.

(B) OTHER PRODUCT ADVANTAGES:

The **MAXICOAT** offers the additional impressive characteristics:

- * Good resistance to hydrostatic pressure
- * Quick development of adhesion
- * Fast development of water resistance
- * Excellent adhesion promotion
- * Superior resistance to dirt pick-up
- * Water clean up
- * No expensive and highly dangerous solvents
- * Non-Flammable
- * Range of colours
- * Recoatability at any time

(C) PHYSICAL PROPERTIES:

Shelf Life:	One year
Pot Life (after mixing) @ 25°C:	2 Hours
Specific Gravity PART A/PART B:	1.359/1.022
Specific Gravity MIXTURE:	1.189
Mixing Ratio (PART A: PART B):	1:1
Recoating time @ 25°C:	2 - 8 hours (depending on local conditions)
Full Cure @ 25°C:	4 Days
Colours:	WHITE, RED, GREEN, BLUE, BLACK, GOLDEN YELLOW, and PASTEL SHADES,
Pack Sizes:	2 Litre, 4 Litre, 10 Litre.(When mixed)
Dilution:	Use MAXICOAT Reducer
Application:	Brush, Spray, or Roller

(C) PHYSICAL PROPERTIES (continued):

	<u>PART A</u>	<u>PART B</u>	<u>MIXTURE</u>
Volume Solids:	57.7%	37.1%	47.5%
Weight Solids:	68.9%	41.3%	57.0%
Clean up:	Water		
Coverage:	<u>2 coats</u> of the MAXICOAT are recommended. Subsequent coats usually spread further, but coverage rates are typically in range 7 to 10 Square Metres per litre.		

CHEMICAL RESISTANCE (No effect upon immersion @ 25°C) :

3 Months:

Sea water, Distilled water, 10% Caustic Soda, Anti-freeze, Xylene.

2 Months: 10% Sulphuric Acid Aviation hydraulic oil.

1 Month: 10% Acetic Acid, Crude Oil, Petroleum Spirit, Vegetable Oils, Ketones, Pthalate Plasticisers, Teepol, Acrylic Latexes.

(D) DIRECTIONS FOR USE:

1) Ensure that all grease, oil, dirt and contaminants have been removed using a 1:10 solution of **PHOENIX "FLOORPREP"** in water, then rinsing with fresh water, and if the surface is shiny, abrade the substrate with a wire brush or sanding paper. For concentrated oil stains and tyre marks, etc. (when painting concrete floors) use undiluted "FLOORPREP". Scrub into the stains and leave for 20 minutes before washing off. Remove all dust, wipe over with a warm detergent solution, and allow to dry thoroughly.

2) **FOR CONCRETE FLOORS:**

Once the floor has dried, etch the concrete using 32-34% hydrochloric acid (spirit of salts or swimming pool acid) diluted 1:6 with water. Always add ACID to the WATER and wear appropriate protective equipment, eg. face mask, rubber gloves and rubber boots, etc. Scrub into the surface using a stiff broom and, after 20 minutes, thoroughly wash down using fresh water and allow to dry **completely** (minimum 24 hours). Any residual moisture in the surface may lead to bubbling in the paint.

FOR OTHER SURFACES:

If the surface requires priming (e.g. for bare steel or aluminium, etc), apply 1 to 2 coats of METALFIX for rusted surfaces, or METALFIX 1000 for most other surfaces, and allow to dry and cure thoroughly (See the respective Technical Data Sheets).

3) Next, apply 2 coats of **MAXICOAT** using a brush, spray gun (conventional or airless) or roller. If the weather is warm or the paint appears to be thick, add a small amount of **MAXICOAT** water-

based reducer until the paint flows satisfactorily. Allow 4-8 hours between coats, depending upon the prevailing temperature and humidity, but if possible, during damp or cool conditions, leave overnight before recoating. **WARNING:** If less than the full pack of the Part A plus Part B is to be used, then ensure that the Part A component is fully stirred on its own to remedy any slight settling which might have taken place.

After this, any quantity of paint can be made up providing that exactly equal volumes of the A and B are combined.

Note: The Part A and B should be accurately mixed together in exactly equal volumes and then stirred thoroughly, otherwise colour variations and inferior film properties may develop. When spraying **MAXICOAT**, ensure that the correct tip size is used to avoid dry over spraying which can give rise to reduced gloss levels. **Note** also that an induction period of 5 - 10 minutes should be allowed after combining the two parts. The mixture should be stirred during this period to allow any reactive gases to escape from the paint.

- 4) Ensure that the **MAXICOAT** is allowed to fully dry and cure before being exposed to moisture or rain, etc. Wash all brushes etc. out in water immediately after use, and do not allow the coating to set hard on any of these items.
- 5) The hardness of the film will continue to increase during the next day or two following application..
- 6) **WARNING:** This should be stored away from direct sunlight at a temperature of approximately 25 degrees Centigrade. The shelf life is approximately one year. **WARNING:** This coating may be prone to some dulling or "chalking" after prolonged exposure to U.V./sunshine.

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