

## QUICKCOAT PU ME

## 2K POLYURETHANE/ACRYLIC TOP COAT

### 1. DESCRIPTION

**QuickCoat PU ME** is a high performance fast drying acrylic polyurethane gloss finish for use where long term gloss and colour retention is required.

### 2. TYPIC USES

The material is suitable for use as a finish coat for high performance anticorrosive epoxy or polyurethane based systems and can be used for either maintenance or new construction purposes. **QuickCoat PU ME** has excellent resistance to low temperature curing condition.

3. PRODUCT PROPERTIES PART 1		DATA		
Volume Solids (%)	49 ± 2% (ASTM-D2697-91)			
Flash Point	Base: 26°C      Additive : 33°C			
Specific Gravity (Kg/Ltr)	1.26 (Mixed) may vary with shade			
V.O.C.	455 gms/litre			
Colours	Limited range and Aluminium			
Pack Size	5 Litre and 20 Litre units when mixed			
Shelf Life	Minimum 1 years			
Mixing Ratio	4 parts base to 1 part additive by volume			
<b>Theoretical Spread Rate (m<sup>2</sup>/Ltr)</b>	<b>9.8 m<sup>2</sup>/Litre</b>			
	<b>Application method</b>	<b>Airless Spray</b>	<b>Conventional Spray</b>	<b>Brush</b>
	<b>@ Dry Film Thickness</b>	50 µm	50 µm	25 µm
	<b>@ Wet Film Thickness</b>	102 µm	102 µm	54 µm
Spreading rates are calculated and due allowance for loss and wastage should be made				
<b>Drying Time @ temperature</b>	<b>15°C</b>	<b>23°C</b>	<b>35°C</b>	
	<b>To Touch</b>	45 minutes	30 minutes	20 minutes
	<b>To Overcoat (Minimum)</b>	8 hours	6 hours	4 hours
	<b>To Handle</b>	24 hours	16 hours	12 hours
These figures are given as a guide only. Factors such as air movement and humidity must also be considered.				

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3. PRODUCT PROPERTIES PART 2	DATA		
Application Notes	Dilution up to 5-10 % by volume may be required according to type of equipment and application method.		
Application Methods	Airless spray, Conventional Spray, Brush		
Pot Life	15°C	23°C	35°C
In hours	5 hours	4 hours	2 hours

### 4. SAFETY, HEALTH & ENVIRONMENTAL INFORMATION (READ THIS SECTION BEFORE USE) SOLVENT BASED PAINT PRODUCT

Flammable. Keep away from sources of ignition. Do not smoke.

Work only in areas of good ventilation. When used indoors always keep doors and windows fully open during a pplication and drying. When applying for short periods only, a suitable cartridge mask may be worn provided the filter is changed regularly. All respiratory equipment must be suitable for the purpose and meet an appropriate standard approved by the HSE. Refer to your COSSH Assessment.

When applying paint it is advisable to wear suitable eye protection. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Remove splashes from skin : use soap and water or a recognised skin cleaner.

Keep container tightly closed and keep out of reach of children. Do not use or store by hanging on a hook. Do not empty into wadis, drains or watercourses.

Contains no added mercury.

\*This data is subject to change without notice. Please ensure you have the latest copy by checking with our Customer Service Department.

### 5. SURFACE PREPARATION

Ensure surfaces to be coated are dry and free from all traces of surface contaminants.

#### 6.1 APPLICATION EQUIPMENT -AIRLESS SPRAY

Nozzle Size	0.33mm (13 thou)
Fan Angle	65°
Operating Pressure	140kg/cm <sup>2</sup> (2000psi)

The airless spray details given above are intended as a guide only. Fluid hose length and diameter, paint temperature and project complexity all have an effect on the choice of spray tip and operating pressure. The operating pressure should be the lowest possible consistent with satisfactory atomisation. As conditions vary, it is the applicators' responsibility to ensure that the equipment in use has been adjusted to give optimum performance. In case of any difficulties or queries, please contact VIP Coatings.

**QUICKCOAT PU ME****2K POLYURETHANE/ACRYLIC TOP COAT****6.2 APPLICATION EQUIPMENT - CONVENTIONAL SPRAY**

Nozzle Size	1.27mm (50 thou)
Atomising Pressure	3.5 kg/cm <sup>2</sup> (50 psi)
Fluid Pressure	0.7 - 1 kg/cm <sup>2</sup> (10 - 15 psi)

The conventional spray details given above are intended as a guide only. It may be found that in some circumstances, slight variations in atomising pressure, fluid pressure and alteration of tip arrangements may provide optimum atomisation. For application by conventional spray, thinning with up to 10% Thinner No. 5 may be required.

**7. BRUSH**

The material is suitable for brush application to small areas only. Application of more than one coat may be required to give the equivalent dry film thickness to one spray applied coat.

**8. APPLICATION CONDITIONS AND OVERCOATING**

In conditions of high relative humidity, i.e. 80 -85% good ventilation is essential. Substrate temperature should be at least 3°C above the dew point. At application temperatures below 10°C, drying times will be significantly extended and spraying characteristics may be impaired. Application at temperatures below 5°C is not recommended. In order to achieve optimum water and chemical resistance the temperature needs to be maintained above 10°C whilst curing. For application at elevated temperatures, please see the note below.

**9. ADDITIONAL NOTES**

Drying, curing times should be considered as a guide only. For spraying maximum 5 to 10% dilution is recommended. The curing reaction of this material commences immediately the two components are mixed. Due to the reaction being temperature dependant, the curing and potlife will be approximately halved by a 10°C increase in temperature and doubled by a 10°C decrease in temperature.

**10. TROPICAL USE**

To ensure a satisfactory working pot life, the temperature of **VIP QuickCoat PU ME** Finish should not exceed 35°C at the time of mixing. Thinning the mixed product at any stage will not significantly extend the working pot life. Application outside the working pot life, even if the material appears to be fit for use, may result in inferior adhesion properties. The recommended maximum air and substrate temperature for the application of this product is 45°C, providing that the conditions allow for satisfactory application and film formation. If the air and substrate temperatures exceed 45°C during application, paint film defects such as dry spray, bubbling and pinholing etc. may occur. Numerical values quoted for physical data may vary slightly on individual batches.

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and testing, to determine the suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. These products require specialized equipment and skills to apply. It is the purchaser's responsibility to ensure that they have the necessary equipment, skills and experience to apply these products. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Technical and application information is provided for the purpose of establishing a general profile of the material and application parameters. Test performance results were obtained in a controlled environment and VIP makes no claim that these tests or any other tests can be accurately reproduced in all environments.

The rights of the purchaser regarding the quality of our materials follows completely our general terms and conditions. For requirements, which exceed the scope of the above mentioned applications please contact VIP technical staff.

VIP reserves the right to change or modify the details and data contained herein at any time.

Valid is only the actual version of this technical data sheet in each case.

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