

**PRODUCT INFORMATION**

**QUICK PRIME SS – 2K POLYURETHANE PRIMER**

**POLYURETHANE**

<b>MATERIAL TYPE</b>	2K Polyurethane tie coat for ferrous and non ferrous substrates				
<b>RECOMMENDED USE</b>	As a primer for use over aluminium, galvanised steel, mild steel, stainless steel and other non ferrous surfaces.				
<b>Endorsements</b>	<b>1998 COMPLIANT</b> – 1990 EPA - PG6/23(92) Clause 19(d) Appendix 2.				
<b>RECOMMENDED APPLICATION METHODS</b>	Brush Roller, Airless				
<b>COLOUR AVAILABILITY</b>	Grey, red, oxide, white				
<b>FLASH POINT</b>	Base: 31°C		Additive: 28°C		
<b>SOLIDS BY VOLUME</b>	44 ± 2% (ASTM-D2697-91).				
<b>V.O.C.</b>	515* grammes/litre * 1990 EPA - PG6/23(97) modified Appendix 3.				
<b>TYPICAL THICKNESS</b>	<b>Dry film thickness</b>	<b>Wet film thickness</b>	<b>Theoretical coverage</b>		
	50 microns	114 microns	8.8 m <sup>2</sup> /litre		
<i>Maximum sag tolerance with overlap typically 75µm dry by spray.</i>					
<b>PRACTICAL APPLICATION RATES - microns per coat</b>		<b>Brush</b>	<b>Roller</b>	<b>Airless</b>	<b>Conventional</b>
	Dry	40	35	50	50
	Wet	91	80	114	114
<b>AVERAGE DRYING TIMES @</b>	<b>15°C</b>	<b>23°C</b>		<b>35°C</b>	
<b>To touch</b>	<b>3 hours</b>	<b>2 hours</b>		<b>1 hour</b>	
<b>To recoat</b>	<b>16 hours</b>	<b>14 hours</b>		<b>12 hours</b>	
<b>To handle</b>	<b>24 hours</b>	<b>16 hours</b>		<b>14 hours</b>	
<i>These figures are given as a guide only. Factors such as air movement and humidity must also be considered.</i>					
<b>RECOMMENDED THINNER</b>	<b>MEK</b>				
<b>RESISTANCE TO</b>	Moisture	<b>Excellent</b>	Aliphatic solvents	<b>Excellent</b>	
	Acid spillage	<b>Moderate</b>	Abrasion	<b>Excellent</b>	
	Alkali spillage	<b>Moderate</b>			
	Petroleum solvents	<b>Excellent</b>			
<b>RECOMMENDED TOPCOATS</b>	May be overcoated with any of VIP’s range of products as well as other high performance epoxies and polyurea systems, provided that the surfaces to be coated have been suitably cleaned. To achieve optimum adhesion, overcoating must be undertaken within 4 days				
<b>POT LIFE</b>	<b>15°C</b>	<b>23°C</b>	<b>35°C</b>		
(For notes on tropical application see page 2)	<b>3 hours</b>	<b>2 hours</b>	<b>1 hour</b>		
<b>PACKAGE</b>	A two component material supplied in separate containers to be mixed prior to use.				
<b>Pack Size</b>	5 litres when mixed.				
<b>Mixing Ratio</b>	5 parts base to 3 parts additive by volume.				
<b>Weight</b>	1,34 kg/litre.				
<b>Shelf Life</b>	Minimum 1 year				

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### POLYURETHANE

#### **SURFACE PREPARATION:**

Blast clean to Sa 2½ BS 7079: Part A1: 1989 (ISO 8501-1: 1988). Average surface profile in the range 30-50 µm.

Manually prepared surfaces should be to a minimum standard of St 3 BS 7079: Part A1: 1989 at the time of coating

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

For application onto stainless steel substrates, the surface should be degreased and where ever practical, blast cleaned to Sa 2½ BS 7079: Part A1: 1989 (ISO 8501-1: 1988).

For application onto cold rolled steel and non ferrous metals such as galvanised surfaces, degreasing should be undertaken using an emulsifying agent such as Leigh's G500 Cleansing Solution. For optimum adhesion, abrading is recommended.

#### **APPLICATION EQUIPMENT:**

##### **Airless Spray**

Nozzle Size 0.33-0.38mm (13-15 thou)

Fan Angle 40°

Operating Pressure 155kg/cm<sup>2</sup> (2200psi)

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's Regional Technical Centre.

##### **Conventional Spray**

Nozzle Size : 1.52mm (60 thou)

Atomising Pressure : 3.2kg/cm<sup>2</sup> (50 psi)

Fluid Pressure : 0.35 – 0.7kg/cm<sup>2</sup> (5 - 10 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.

##### **Brush and Roller**

The material is suitable for brush and roller application.

Application of more than one coat may be required to give the equivalent dry film thickness to one spray applied coat.

#### **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.

To overcoat outside the times stated on the data sheet, please seek the advice of VIP's Regional Technical Centre.

#### **ADDITIONAL NOTES:**

Drying, curing and potlife times should be considered as a guide only.

The curing reaction of this product 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.

##### **Tropical Use**

To ensure a satisfactory working potlife, the temperature of Quick Prime SS should not exceed 35°C at the time of mixing.

Thinning the mixed product at any stage will not significantly extend the working potlife.

Application outside the working potlife, 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.

Any person or company using this product without first making further enquiries as to the suitability of the product for the intended purpose does so at their own risk, and the manufacturer can accept no liability for the performance of the product, or for any loss or damage arising out of such use. The information detailed in this data sheet is liable to modification from time to time in the light of experience and of normal product development, and before using, customers are advised to check with the local manufacturer, quoting the reference number to ensure that they possess the latest issue.