



# LEIGHS M600

## PRODUCT TECHNICAL DATA

<b>FULL DESCRIPTION</b>	: LEIGHS M600 QUICK DRYING ZINC PHOSPHATE PRIMER		
<b>MATERIAL TYPE</b>	: Quick drying single pack alkyd anticorrosive primer pigmented with zinc phosphate		
<b>RECOMMENDED USE</b>	: Protection of steel where speed of drying is important		
<b>RECOMMENDED APPLICATION METHODS</b>	: Airless Spray : Conventional Spray : Brush ( for small areas and touch up only )		
<b>COLOUR AVAILABILITY</b>	: Limited range		
<b>FLASH POINT</b>	: 24°C		
<b>% SOLIDS BY VOLUME</b>	: 44 ± 2% (ASTM-D2697-91)		
<b>V.O.C.</b>	: 455 gms/litre determined practically in accordance with UK Regulations PG6/23 : 495 gms/litre calculated from formulation to satisfy EC Solvent Emissions Directive : 368 gms/kilo content by weight from formulation, to satisfy EC SED		
<b>TYPICAL THICKNESS</b>	<b>Dry film thickness</b> : 75 microns	<b>Wet film thickness</b> : 171 microns	<b>Theoretical coverage</b> : 5.8 m <sup>2</sup> /ltr*
	* This figure makes no allowance for surface profile, uneven application, overspray or losses in containers and equipment. Film thickness will vary depending on actual use and specification.		
<b>PRACTICAL APPLICATION RATES- microns per coat</b>	<b>Airless Spray</b>	<b>Conventional Spray</b>	
	: Dry	: 75*	: 75
	: Wet	: 171	: 171
	* Maximum sag tolerance typically 125µm dry by airless spray.		
<b>AVERAGE DRYING TIMES</b>	<b>At 15°C</b>	<b>At 23°C</b>	<b>At 35°C</b>
<b>To touch</b>	: 30 minutes	: 15 minutes	: 10 minutes
<b>To recoat</b>	: 1 hour	: 45 minutes	: 30 minutes
<b>To handle</b>	: 4 hours	: 3 hours	: 2 hours
	These figures are given as a guide only. Factors such as air movement and humidity must also be considered.		
<b>RECOMMENDED THINNER</b>	: Cleanser/Thinner No. 2		
<b>RESISTANCE TO</b>	: Moisture - Good : Abrasion - Moderate	: Aliphatic solvents - Moderate : Weather - Good	
<b>RECOMMENDED TOPCOATS</b>	: Indefinitely overcoatable with a wide range of materials, including alkyd, chlorinated rubber and vinyl systems.		
<b>PACKAGE</b>	<b>Pack Size</b>	: Single component material : 200 litre, 20 litre and 5 litre units	
	<b>Weight</b>	: 1.35 kg/litre (may vary with shade).	
	<b>Shelf Life</b>	: 2 years from date of manufacture or 'Use By' date where specified.	

**SURFACE PREPARATION:**

Blast clean to Sa2½ BS EN ISO 8501-1:2007. Average surface profile in the range 50-75 microns.

Manually prepared surfaces should be prepared to a minimum standard of ST3 BS EN ISO 8501-1:2007 at the time of coating.

Ensure surfaces to be coated are clean, dry and free from all surface contamination.

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**APPLICATION EQUIPMENT:****Airless Spray**

Nozzle Size : 0.46mm (18 thou)  
Fan Angle : 80°  
Operating Pressure : 140kg/cm<sup>2</sup> (2000 psi)

The airless spray details given above are intended as a guide only. Details such as fluid hose length and diameter, paint temperature and job shape and size all have an effect on the spray tip and operating pressure chosen. However, the operating pressure should be the lowest possible consistent with satisfactory atomisation. As conditions will vary from job to job, it is the applicators' responsibility to ensure that the equipment in use has been set up to give the best results. If in doubt Leighs Customer Service Department should be consulted.

**Conventional Spray**

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

The details of atomising pressure, fluid pressure and nozzle size are given as a guide. It may be found that slight variations of pressure will provide optimum atomisation in some circumstances according to the set up in use. Atomising air pressure depends on the air cap in use and the fluid pressure depends on the length of line and direction of feed i.e. horizontal or vertical.

**Brush**

The material is suitable for brush application to small areas and for touch up purposes. To achieve normal dry film thicknesses by brush more than one coat will be necessary.

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**APPLICATION CONDITIONS AND OVERCOATING:**

In conditions of high relative humidity, ie 80-85% good ventilation conditions are essential. Substrate temperature should be at least 3°C above the dew point and always above 0°C.

Application at ambient air temperatures below 5°C is not recommended.

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**ADDITIONAL NOTES:**

Numerical values quoted for physical data may vary slightly from batch to batch.

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**HEALTH AND SAFETY:**

Consult Product Health and Safety Data Sheet for information on safe storage, handling and application of this product.

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Any person or company using the product without first making further enquiries as to the suitability of the product for the intended purpose does so at their own risk, and Sherwin-Williams 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 Sherwin-Williams, quoting the reference number, to ensure that they possess the latest issue.