



# Protective & Marine Coatings

# KEM-KROMIK™ 489 ALKYD PRIMER

FORMERLY KNOWN AS SHERWIN L489

Revised 04/2019 Issue 1

## PRODUCT INFORMATION

### PRODUCT DESCRIPTION

Highly protective alkyd anticorrosive primer pigmented with minimum 40% zinc phosphate.

### RECOMMENDED USE

Anticorrosive spraying or brushing primer for steel.

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Complies with BS5493:1977 - Table 4F Type FP3A  
BS 476-7:1997 - Surface Spread of Flame Material - for details of substrate/scheme, consult Sherwin-Williams

### RECOMMENDED APPLICATION METHODS

Airless Spray  
Conventional Spray  
Brush  
Roller

Recommended Thinner: No 1

### PRODUCT CHARACTERISTICS

**Flash Point:** 38°C  
**% Solids by Volume:** 58 ± 3% ASTM-D2697-03(2014)  
**Colour Availability:** Grey and limited range of shades

#### VOC

333 gms/litre determined practically in accordance with UK Regulations PG6/23  
392 gms/litre calculated from formulation to satisfy EC Solvent Emissions Directive  
308 gms/kilo content by weight from formulation, to satisfy EC Solvent Emissions Directive

### TYPICAL THICKNESS

Dry film	Wet film	Theoretical coverage
75 microns	129 microns	7.7m <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.

### PRACTICAL APPLICATION RATES - MICRONS PER COAT

	Airless Spray	Conventional Spray	Brush	Roller
<b>Dry</b>	75*	75	50	45
<b>Wet</b>	129	129	85	78

\* Maximum sag tolerance typically 172µm wet (100µm dry) by airless spray.

### AVERAGE DRYING TIMES

	@ 15°C	@ 23°C	@ 35°C
<b>To touch:</b>	4 hours	2 hours	1½ hours
<b>To recoat:</b>	24 hours	16 hours	12 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.

### RECOMMENDED TOPCOATS

Indefinitely overcoatable with itself or a wide range of white spirit based undercoats and finishes.

### PACKAGE

A single component material

**Pack Size:** 20 litre and 5 litre units  
**Weight:** 1.38 kg/litre (may vary with shade).  
**Shelf Life:** 2 years from date of manufacture or 'Use By' date where specified.



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### **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.

### **APPLICATION EQUIPMENT**

#### **Airless Spray**

Nozzle size:	0.46mm (18 thou)
Fan Angle	65°
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 Sherwin-Williams 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. Application of more than one coat may be necessary to give equivalent dry film thickness to a single spray applied coat.

#### **Roller**

The material is suitable for roller application. Application of more than one coat may be necessary to give equivalent dry film thickness to a single spray applied coat.

### **APPLICATION CONDITIONS AND OVERCOATING**

In conditions of high relative humidity, ie 80-85% good ventilation conditions are essential. Substrate temperature shall 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.

The maximum air and substrate temperature for application is 50°C providing conditions allow satisfactory application and film formation. If the air and substrate temperatures exceed 50°C and coatings are applied under these conditions, paint film defects such as dry spray, bubbling and pinholing etc,

can occur within the coating. If for any reason it is desired to apply at a higher temperature, please seek advice of Sherwin-Williams.

### **ADDITIONAL NOTES**

Any skin that may form on the surface of the paint in the container should be removed carefully to avoid the necessity of sieving the paint.

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

### **HEALTH AND SAFETY**

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

### **WARRANTY**

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.