



## PROTECTIVE & MARINE COATINGS

# Elladur LM

## PRODUCT TECHNICAL DATA

### PRODUCT DESCRIPTION

Elladur™ LM is a high-build Polyaspartic/Polyurea type fast-cure line marking based on advanced materials, designed to provide a coloured tough and durable gloss finish in a range of thicknesses. Elladur™ LM is light stable with good chemical resistance and can be applied to a variety of finishes and surfaces. Additional slip resistance can be created by incorporating suitable aggregates.

### ADVANTAGES

- High build line markings
- Fast curing at low temperature
- Tough but flexible
- UV stable
- Ease of application
- Excellent high gloss finish
- Very low odour
- Excellent adhesion

### RECOMMENDED USE

- Where high build UV stable line markings are required
- Areas where a fast return to service is required
- Excellent for all demarcation and walkways
- Medical, Commercial and Industrial Floor areas

### PRODUCT DATA

<b><u>Volume Solids:</u></b>	~100%	<b><u>Application at 20°C</u></b>	
<b><u>VOC:</u></b>	<30 g/l calculated per full mixed unit	Recoating Intervals:	2 – 3 hours or once surface has lost tackiness (Maximum 8 hours)
<b><u>Colours:</u></b>	Black, Savannah, White, Forest Green, Poppy Red	Light Traffic:	2 – 3 hours
<b><u>Finish:</u></b>	Smooth gloss	Full Traffic:	3 – 4 hours
<b><u>Flash Point:</u></b>	N/A	Full Chemical Cure	7 days
<b><u>Cleanser/Thinner:</u></b>	N/A	<b><u>Pot Life:</u></b>	25 – 30 minutes from mixing, based on 2.5 kg pack size
<b><u>Pack Size:</u></b>	2.5 kg	<i>The pot life may be shorter for larger pack sizes if the paint is not used within the pot life limit.</i>	
<b><u>Mixing Ratio:</u></b>	4.5 parts base to 1 part hardener by weight only	<b>Note:</b> All mixed paint must be used within the pot life limit, if the paint is left in the container after mixing and not used, it may release hazardous fumes due to exothermic reaction.	
<b><u>Pack Weights:</u></b>	2.05kg base/0.45kg hardener	<b><u>Coverage Rate:</u></b>	25 linear metres per 2.5 kg unit at 500 µm thickness and 100mm wide
<b><u>Mixed Density:</u></b>	Approximately 1.6 g/cm <sup>3</sup>	(Theoretical)	
<b><u>Shelf Life:</u></b>	12 Months (Base & Hardener)	Coverage rate is calculated based on a sealed and smooth surface and may vary based on the substrate roughness and other conditions.	
<b><u>Storage:</u></b>	Keep out of direct sunlight. Store in a dry place, between 15°C – 30°C	<b><u>System Thickness:</u></b>	500 µm – 1mm
<b><u>Recommended Application Methods:</u></b>	Brush, roller or squeegee	<b>(Recommended)</b>	
		<i>The suggested thickness range is calculated based on average volume solid as a general recommendation for the specified condition and for each application may vary.</i>	



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#### SURFACE PREPARATION

**New Concrete Floors:** New concrete must be clean, sound, dry, fully cured and surface laitance removed by vacuum enclosed shot blasting or mechanical grinding, a minimum strength of 25N/mm<sup>2</sup> is required.

**Existing Concrete Floors:** Remove all dirt, oil, grease, old paint or any other surface contaminants by vacuum enclosed shot blasting, scarifying or mechanical grinding. Fats, oils or greases must be removed by mechanical means and detergent washing and making sure all residue of detergent is washed and removed by rinsing with clean water. Local repairs should be carried out using **Resuscreed PA**.

**Existing Floors (previously coated):** All previous coatings and loose floor paints must be removed by mechanical preparation as described in the above section and primed as specified. If the old resin flooring cannot be removed then please consult with our technical team for advice on intercoat adhesion and suitability, as it may not be compatible with the existing floor coating. Where **Elladur LM** is applied to masonry/concrete surfaces, care must be taken to ensure that surface preparation is thorough but does not disfigure the surface.

#### PRIMING

See Sherwin-Williams System Sheets for recommended floor systems.  
Open and porous substrates may require priming with **Resuseal WB**, also **Resuprime ST** may be used as primer on the dry substrates only with less than 75% ERH reading.

Where the Relative Humidity of a substrate exceeds 75% ERH please refer to the table below for required number of coats to achieve proper moisture tolerance.

ERH%	Required Coating Thickness
75-85	1 coat of Resuprime MVT at 200 µm per coat
85-92	2 coats of Resuprime MVT at 200 µm per coat
92-97	3 coats of Resuprime MVT at 200 µm per coat

For further information please refer to recommended individual product data sheets.

#### APPLICATION CONDITIONS

The ambient temperatures of the areas should not be allowed to fall below 15°C throughout the application and the curing period, as this could have an adverse effect on the appearance and colour of the system. Surface temperature must be above 10°C. Where possible it is recommended that the application area is heated to a minimum temperature of 15°C ideally to allow the ambient and substrate temperature to stabilise prior to the installation.

Substrate Temperature: 2 - 30°C

Note: Use brushes or rubber squeegee to spread the coating and then back roll it if required to achieve proper coverage rate.

Relative Humidity up to 90%

In case of application at lower temperature, DO NOT store the material in cold conditions as it will affect the material viscosity and flow. Make sure materials are kept at specified storage condition prior to application.

#### APPLICATION

**Mixing:** Mix the entire contents of the base with the hardener. If a separate mixing bucket is being used mix thoroughly ensuring all contents of both components are removed from the buckets supplied. Mix using a slow speed electric mixer for approximately two to three minutes until the two components are fully combined.

The mixed unit should be applied immediately by roller, brush or squeegee with a consistent procedure.

**Elladur™ LM** may be applied to an existing resin floor system where a primer is not required. When applied direct to porous substrates such as concrete the surface must be primed with **Elladur™ SF Clear** to ensure good adhesion to the surface.

#### TECHNICAL INFORMATION

The following figures are obtained from laboratory tests and our experience with this product.

<b>FeRFA Category:</b>	Category 2
<b>Temperature Resistance:</b>	Tolerant of temperatures up to 60°C
<b>Abrasion Resistance:</b> (ASTM D4060-14)	75mg loss per 1000 cycles
<b>Bond Strength:</b> (BS EN 13892-8:2002)	>3N/mm <sup>2</sup> (Substrate failure)

#### 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 datasheet is liable to modification from time to time in the light of experience and 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.

#### DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

#### HEALTH AND SAFETY

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

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