

## TEMATHANE PLV20, PLV50, PLV90

(formerly Temadur MS series)

### DESCRIPTION

Two pack polyurethane finish.

### PRODUCT FEATURES AND RECOMMENDED USES

- ◆ Suitable for agricultural and earth moving equipment.
- ◆ Excellent gloss and distinction of image.
- ◆ Excellent durability.
- ◆ High build finish.
- ◆ Recoatable with itself without sanding.
- ◆ Suitable for application by conventional and airless spray.

### TECHNICAL DATA

**Volume solids** 45 ± 10% mixed (ISO 3233) mixed, depending on colour.

**Weight solids** 52 ± 10% mixed, depending on colour.

**Viscosity** 75 – 85" BSB4@23°C unmixed depending on colour.

**Specific gravity** 1.05 – 1.50 unmixed, depending on colour.

**Product code** Existing colours: 2901 series  
New colours : 2851 series (PLV20), 2852 series (PLV50).  
Hardener : 4051 035

**Pot life** 3 - 5 hours @ 23°C and 1 bar pressure to double viscosity.  
Note: gel time is 8 hours @ 23°C.

### Recommended film thicknesses and theoretical coverage

Recommended film thicknesses		Theoretical coverage
dry	wet	
25 µm	55 µm	18.0 m <sup>2</sup> /l
35 µm	75 µm	12.9 m <sup>2</sup> /l

Practical coverage depends on the application method, painting conditions and the shape and roughness of the surface to be coated.

### Drying time

DFT 30 µm	+23°C
Flash off	10 – 15 min
Air Dry	Hard overnight
Force dry	30min/80°C
Overcoating	When cool and before 48 hours ageing

Drying and recoating times are related to the film thickness, temperature, the relative humidity of the air and ventilation.

**Finish** Range of gloss levels available from PLV20 (low gloss) to PLV90 (high gloss).

**Colours** White, Yellow, Black, Grey and a full range of colours to customer specifications.

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### APPLICATION DETAILS

<b>Surface preparation</b>	<p>Surfaces should be clean and dry and free from oil, grease, salts, dirt and general contamination.</p> <p>Preliminary cleaning: remove oil grease with a suitable detergent. Remove salt and other contaminants by fresh water cleaning and allow to dry (ISO 12944-4).</p> <p>Pre-treatment improves adhesion and reduces corrosion under the paint film. The type of pre-treatment depends on the requirements for corrosion protection e.g.</p> <ol style="list-style-type: none"><li>1. Zinc phosphate with Cr-VI passivation.</li><li>2. Iron phosphate with demineralised water rinsing (insufficient rinsing can lead to the osmotic formation of bubbles).</li><li>3. Alkaline or neutral degreasing.</li><li>4. Clean steel.</li><li>5. Suitably primed with a 2K epoxy, Temacoat MSP, HSP, Fonteprime EP, or PU primer, Temadur MP, or EDP.</li></ol>
<b>Application conditions</b>	<p>Only apply in conditions of good ventilation which should be maintained during drying. Do not apply when rain, mist, sleet or snow are imminent. During application and drying time of the paint coating, the surface should be dry, the Relative Humidity should not exceed 85% and the steel temperature should remain at least 3°C above the dew point.</p>
<b>Mixing</b>	<p>Mix only in the proportions stated, mixing each component individually then together using a mechanical agitator. Ensure complete homogeneity before use.</p>
<b>Application</b>	<p>Ensure the correct catalyst (4051 035) and ratio are used and mix the paint thoroughly before use.</p> <p>Note: the ratio varies depending on the colour from 5:1 to 6.5:1.</p> <p>Airless spray application - ready for use when mixed.</p> <p>Typical tip sizes employed are 11 – 13 thou.</p> <p>Suitable for spraying by conventional air spray when thinned to 30 – 45 seconds BSB4 @ 25°C (non-compliant).</p>
<b>Thinner</b>	<p>1728 Thinner.</p>
<b>Cleaning of equipment</b>	<p>Remove remaining paint from equipment, flush thoroughly with 1728 Thinner until solvent appears uncontaminated.</p>
<b>FLASH POINT</b>	<p>22 - 32°C</p>
<b>STORAGE</b>	<p>Store in dry, cool conditions and protect from frost.</p>
<b>HEALTH AND SAFETY</b>	<p>Containers are provided with safety labels, which should be observed.</p> <p>Further information about hazardous influences and protection are detailed in individual health and safety data sheets.</p> <p>A health and safety data sheet is available on request from Protega Coatings Ltd.</p>
<b>PRODUCT NOTES</b>	<p>Existing contract colours supplied as PLV90 on 2901 series line code were formerly called Temadur MS series. All new colours will be supplied as PLV on 2892 series line code – see separate "Temathane PLV" data sheet.</p>