

## PROTEGATHANE PLV & PLV(L)

### DESCRIPTION

A two component, recoatable aliphatic polyurethane, gloss finish.

### PRODUCT FEATURES AND RECOMMENDED USES

- ◆ Approved to Highways Agency Item 168 and Network Rail RT98 Item 7.3.1.
- ◆ This product features in a 25 year performance certificate provided by independent test laboratories.
- ◆ Excellent chemical resistance.
- ◆ Excellent high gloss and gloss retention.
- ◆ Extremely tough, durable finish, combining good anti-abrasion properties with exceptional weathering characteristics.
- ◆ Easily cleaned finish.
- ◆ Withstands 150°C dry heat (discolouration may occur).
- ◆ Low temperature curing – down to -5°C.

### TECHNICAL DATA

#### Volume solids

53 ± 2% (ISO 3233).

#### Weight solids

66 ± 2%.

#### Specific gravity

1.10 – 1.30 mixed, depending on colour.

#### Product code

|           |                   |                              |
|-----------|-------------------|------------------------------|
| Base      | 5 parts by volume | 2892 (PLV) and 2905 (PLV(L)) |
| Hardener  | 1 part by volume  | 4054 120                     |
| Composite |                   | 4800 (PLV) and 4885 (PLV(L)) |

#### Pot life

4 hours @ 23°C

#### Recommended film thicknesses and theoretical coverage

| Recommended film thicknesses |        | Theoretical coverage   |
|------------------------------|--------|------------------------|
| dry                          | wet    |                        |
| 30 µm                        | 55 µm  | 17.6 m <sup>2</sup> /l |
| 60 µm                        | 115 µm | 8.8 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 40 µm   |     | +5°C                            | +10°C | +23°C | +35°C  |
|-------------|-----|---------------------------------|-------|-------|--------|
| Dust free   |     | 3 h                             | 2 h   | 1 h   | 45 min |
| Hard dry    |     | 9 h                             | 6 h   | 3 h   | 2 h    |
| Overcoating | Min | 24 h                            | 24 h  | 12 h  | 10 h   |
|             | Max | Indefinite* - see product notes |       |       |        |

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

#### Finish

High gloss

#### Colours

BS4800, RAL, NCS, TVT colours, selected BS2660 and BS381C shades and RAL9006 metallic\* (for Clear, see separate data sheet for ProtegaThane PLV001).

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### APPLICATION DETAILS

**Surface preparation** This is a finish coat which should be applied over appropriate Protega primers or undercoats. Consult Protega Coatings for advice. Surfaces should be clean, dry and free from grease, oil and general contamination.

**Application conditions** 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.

**Mixing** Mix only in the proportions stated, mixing each component individually then together using a mechanical agitator. Ensure complete homogeneity before use.

### Application

| Method          | Airless spray      | Automatic spray | Conventional spray         | Brush | Roller |
|-----------------|--------------------|-----------------|----------------------------|-------|--------|
| Output pressure | 2200 – 2500 p.s.i. | No              | Yes any suitable equipment | Yes   | Yes    |
| Tip size        | 13 – 18            |                 |                            |       |        |

**Brush/Roller** – product is suitable for brush and roller application, although due to fast curing properties, intricate structures should be avoiding with this method. Avoiding exceeding the maximum stated dry film thickness. The addition of 5 – 10% 1737 Thinners is recommended for best results when spraying, except with metallic shades, which should be applied without thinning.

**Thinner** 1737 Thinner.

**Cleaning of equipment** Remove remaining paint from equipment, flush thoroughly with 1737 Thinner until solvent appears uncontaminated.

**FLASH POINT** 22 - 32°C.

**STORAGE** Store in dry, cool conditions and protect from frost.

**VOC** Volatile Organic Compound content: 411 ± 20 gm/ltr, varies with colour.

**HEALTH AND SAFETY** Containers are provided with safety labels, which should be observed. Further information about hazardous influences and protection are detailed in individual health and safety data sheets. A health and safety data sheet is available on request from Protega Coatings Ltd.

**PRODUCT NOTES** **\*RAL9006 Metallic shade:** can applied to 50 microns dft maximum for best appearance. Apply over suitable undercoat from selected Protega epoxy or polyurethane materials. Viscosity and solids content of metallic shades are lower than standard colours. Please consult Protega Coatings for advice.

Caution - contains isocyanate. Ensure adequate ventilation and wear air fed hood when spraying. High humidities and condensation will impair gloss. Some shades contain lead colourants and these are labelled as ProtegaThane PLV(L).

For best opacity, particularly with bright tinted colours such as bright yellows, oranges and reds, this product should be applied over a primer or intermediate coat tinted to the recommended undercoat shade – please consult Protega Coatings for details.

For PLV20, PLV50 or PLV90 products, with codes beginning 2901-, (formerly called *Temadur MS series*), please see separate "ProtegaThane PLV20,50,90" 2901-line data sheet.