

PROTEGATHANE PLS(HS) & PLS(HS)(L)

DESCRIPTION

A two component, recoatable, aliphatic polyurethane mid-sheen finish.

PRODUCT FEATURES AND RECOMMENDED USES

- ◆ Approved to Highways Agency Item 169 and Network Rail RT98 Item 7.3.1.
- ◆ This product features in a 25 year performance certificate provided by independent test laboratories.
- ◆ Excellent colour and UV resistance.
- ◆ Extremely tough, durable finish combining good anti-abrasion properties with exceptional weathering characteristics.
- ◆ Indefinitely recoatable.
- ◆ Easily cleaned finish.
- ◆ High build properties – up to 125 microns dft.
- ◆ Suitable for urban, marine or industrial environments.
- ◆ Excellent solvent and chemical resistance.
- ◆ Low temperature curing – down to -5°C.
- ◆ Suitable as a topseal over ProtegaFire S167 and S168 thin film intumescent coatings.

TECHNICAL DATA

Volume solids 58 ± 2% mixed (ISO 3233).

Weight solids 74 ± 2% mixed.

Specific gravity 1.40 – 1.60 mixed, may vary with colour.

Product code

Base	9 parts by volume	2896 and 2906 ((L) version)
Activator	1 parts by volume	4054 121
Composite		4821 and 4826 ((L) version)

Pot life 4 hours @ 23°C.

Recommended film thicknesses and theoretical coverage

Recommended film thicknesses		Theoretical coverage
dry	wet	
30 µm	52 µm	19.3 m ² /l
125 µm	216 µm	4.6 m ² /l

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

Drying time

DFT 50 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			

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

Finish Mid sheen

Colours BS4800, RAL, BS381C, NCS colours.

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APPLICATION DETAILS

Surface preparation This product is a finish coat which should be applied over relevant Protega primers. Consult Protega for advice.

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 Fluid Pressure	2200 – 2500 p.s.i.	No	See below	Yes	Yes
Tip Size	13 – 18 thou				

Airless Spray – up to 5% by volume thinner may be added for application under cool conditions and to apply at lower dft's.

Conventional Spray – up to 10% thinner will be necessary. Maximum dft by this method is 75 microns.

Brush/Roller – product is suitable for both brush and roller.
Avoid exceeding the maximum stated dry film thickness.

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: 385 ± 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 High humidities and condensation during application and curing will impair gloss. Use ProtegaThane PLV series when a full gloss finish is required.

Caution: contains isocyanates. Ensure adequate ventilation and wear air fed hood.

Some shades may contain lead colourants and these are labelled PLS(HS)(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.