

LUSTRE – POLYURETHANE 2 Pack Topcoat

PRODUCT INFORMATION

Coating type:

Acrylic modified polyurethane

Typical uses:

For use as a final coat(s), in conjunction with an epoxy primer or polyurethane based protective system for new constructions or maintenance purposes. Can be used in a wide range of environments including steel protection, bridges, lighting columns, chemical plants, and the power industry.

Colours available:

Unlimited, including British Standard, RAL plus many other ranges.

Appearance:

High gloss or semi-gloss.

Features and benefits:

- Excellent colour and gloss retention of extended durability

TECHNICAL INFORMATION

Theoretical coverage:

11.4m² per litre at 50 microns

Film thickness:

	Wet film thickness	Dry film thickness
Typical:	90 microns	50 microns
Range:	70-125 microns	40-70 microns

Recommended primers:

SHIELD – 2 Pack SURFACE TOLERANT EPOXY Primer
SHIELD – 2 Pack HIGH BUILD EPOXY Primer

V.O.C.:

390gm/ltr EPA Method 24

222gm/kg calculated from formulation to satisfy EU

Solvent Emissions Directive

VOC may vary with colour

% Volume solids:

57% calculated from laboratory formulation

May vary with colour

Drying time:

Temp.	Touch dry	Film dry	Overcoat	Full cure
5°C	6 hrs	16 hrs	16 hrs.	Overnight
10°C	4 hrs	12 hrs	12 hrs.	Overnight
15°C	3 hrs	10 hrs	10 hrs.	Overnight
20°C	2 hrs	8 hrs	8 hrs	Overnight

Drying time will vary with temperature, air movement, etc. LUSTRE Polyurethane will cure at temperatures down to 0°C, however at temperatures below 15°C, the base and hardener will thicken considerably and affect application characteristics. At low ambient temperatures we would advise that base and hardener are warmed separately to 20°C before use to ensure optimum application properties.

SURFACE PREPARATION

Surface preparation:

All surfaces to be coated should be clean, dry, and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:2000. The surface should also be suitably primed.

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MIXING RATIOS

Paint preparation before use:

Stir the base component thoroughly, then add the comp B to the base in the ratio mentioned below. Mix the comp B and base until they become homogenous. Also, it is recommended that the product is maintained at 15-20°C prior to and during application.

Mixing ratio calculated by weight.

All weights are in grams.

Amount to be mixed	Weight of Comp A	Weight of Comp B	Total
500ml	476\446	100\125	576\571
1 litre	952\893	200\250	1152\1143
1.5 litres	1428\1339	300\375	1728\1714
2 litres	1904\1785	400\500	2304\2285

4:1 mix\3.1 mix

Mixing ratio by volume:

4-parts base to 1-part comp B for normal mix or 3-parts base to 1-part comp B for a harder more abrasion resistant finish. There will be surplus base if using the 3:1 mix – please dispose of responsibly.

APPLICATION

Application conditions:

This material should preferably be applied at temperatures more than 5°C. Relative humidity should not exceed 90% and in these conditions good ventilation is essential. Substrate temperature should be at least 3°C above the dew point and always above 0°C.

Do not apply at temperatures below 0°C.

At application temperatures below 5°C, drying and curing times will be significantly extended, and spraying characteristics may be impaired.

Airless spray:

Tip size: 11-13 thou (0.28-0.33mm)

Tip pressure: 2500psi (170 Bar)

Conventional spray:

Tip size: 55 thou (1.4mm)

Tip pressure: 40-50psi (2.75-3.44 Bar)

Brush application:

Can be applied by brush.

Thinning:

Add between 10-15% SML Polyurethane Thinner depending on application conditions.

Clean-up:

Clean all equipment after use with SML Polyurethane Thinner. Do not allow product to remain in hoses, guns, or spray equipment. All surplus product should be disposed of in accordance with appropriate regional regulations/legislation.

STORAGE AND PACKAGING

Storage:

Under cover within temperature range of 5°C to 32°C. Keep containers dry and tightly sealed to avoid moisture contamination.

Shelf life:

2 years or longer in unopened containers when stored under cover within a temperature range of 5°C to 32°C or 'use by' date on packaging.

Pot life (at 20°C):

4 hours

Packaging:

2.5 and 1 litre packs

HEALTH AND SAFETY

All work involving the application and use of this product should be performed in compliance with all relevant national, health, safety & environmental standards, and regulations

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ADDITIONAL NOTES

The application and spray information given above is intended as a guide only. As conditions vary from job-to-job, it is the applicators responsibility to ensure all equipment in use has been set up to give the best results.

Due to the high solids content of this product, low application temperatures have a marked effect on viscosity, it is recommended that the product is maintained at 15-20°C prior to and during application.

Certain products retain solvents for longer periods, which will affect plasticizers within the plastic packaging causing damage to the finish. It is therefore not recommended that finished painted products be wrapped in bubble wrap, plastic sleeves, etc., until coatings are fully cured as this can cause damage to the finish especially when stacked or stored in sunlight/elevated temperatures. Damage can also occur from condensation caused by fluctuations in temperature consequently causing a 'greenhouse' effect within the packaging. This product is fully compliant with the Environmental Protection Act (1990) as required by Guidance Note PG6/23(97) (Clause 20(d)) and conforms to Highways England Specification.

IMPORTANT INFORMATION

The information supplied in this product datasheet is not intended to be exhaustive. Any person using the product for any other purpose than that specifically recommended in this product datasheet, without first obtaining written confirmation from SML Paints and Coatings as to the suitability of the product for the intended purpose does so at their own risk. All advice given about the product is correct to the best of our knowledge, however we have no control over the condition of the substrate, preparation or the many factors affecting the use and application of the product. Therefore, unless specifically agreed in writing to do so, we do not accept any liability at all for the performance of the product or for (subject to the maximum extent permitted by law) any loss or damage arising out of the use of the product.

SML Paints and Coatings warrants its products to be free from defects in material and workmanship. SML Paints and Coatings obligations and buyer's exclusive remedy relating to the products shall be limited, at SML Paints and Coatings option, to either replace the products not conforming the warranty or the credit of the buyers account in the invoiced amount of the non-conforming product. Any claim under this warranty must be made by the Buyer to SML Paints and Coatings in writing within five (5) days of the Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the delivery date, whichever is earlier. The Buyer's failure to notify SML Paints and Coatings of such non-conformance as required herein shall bar the Buyer from recovery under this warranty.

The information detailed in this datasheet is liable to modification from time-to-time in the light of experience and our programme of product development. Before use, it is the customers responsibility to check with SML Paints and Coatings, quoting the product reference number and version reference at the bottom of the data sheet, to ensure that they have in their possession the latest issue.

Technical product datasheets are available from our website at www.smlmarinepaints.co.uk, and should be the same as this datasheet. Should there be any discrepancies between this document and the website version, then please contact SML Paints and Coatings.

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