

## SHIELD - 2 Pack SURFACE TOLERANT EPOXY Primer

### PRODUCT INFORMATION

**Coating type:**

High build aluminium flake epoxy primer

**Typical uses:**

As a maintenance primer to give improved adhesion and flexibility when applied to manually cleaned steelwork, galvanised steel, and existing aged coatings. Use as a first coat on prepared steel.

**Colours available:**

Metallic aluminium

**Appearance:**

High sheen

**Features and benefits:**

- Tolerant to surface moisture during application
- Performs well on blasted & hand prepared surfaces
- Contains aluminium flake to improve barrier effect
- Excellent adhesion to wide range of substrates
- High in volume solids
- Low in VOC content – compliant to EPA PG6/23
- High build application by brush and airless spray

### TECHNICAL INFORMATION

**Theoretical coverage using brush/roller:**

A spreading rate of 7.3m<sup>2</sup> per litre of paint used gives 100 microns dry film thickness

**Film thickness:**

	Wet film thickness	Dry film thickness	Spreading rate
<b>Typical:</b>	125 microns	91 microns	8m <sup>2</sup> per litre
<b>Range:</b>	100-275 microns	73-200 microns	10m <sup>2</sup> - 3.6m <sup>2</sup> per litre

**Recommended topcoat:**

LUSTRE - SATIN – POLYURETHANE 2 Pack Topcoat

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**Sag tolerance:**

380 microns wet film thickness V.O.C:

195grm/ltr EPA Method 24

147grm/kg calculated from formulation to satisfy EU Solvent Emissions Directive

**% Volume solids:**

73 ± 2% calculated from laboratory formulation

**Drying time:**

Temp.	Touch dry	Firm dry	Overcoat
5°C	7 hrs 30 mins	20 hrs	20 hrs with epoxy or polyurethane
10°C	6 hrs	16 hrs	16 hrs with epoxy or polyurethane
15°C	4 hrs 30 mins	12 hrs	12 hrs with epoxy or polyurethane
20°C	3 hrs	8 hrs	8 hrs with epoxy or polyurethane

*Drying time will vary with temperature, air movement, etc.*

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## SURFACE PREPARATION

### Surface preparation:

All surfaces to be coated should be clean, dry, and free from contamination

For the use of airless spray application, it is recommended that the substrate to be coated is blast cleaned to Sa2.5 BS EN ISO 8501-1:2007.

### Manually prepared substrates:

Hand tool prepare to minimum standard St2 BS EN ISO 8501-1:2007.

Power-clean or abrade to remove all flaking or poorly adherent paint back to a firm 'feathered edge'. Abrade existing sound paint if a gloss finish. Degrease with SML Cleaner Degreaser or good quality alkaline detergent.

## MIXING RATIOS

### Paint preparation before use:

Stir the base component A 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 by volume:

4-parts base to 1-part Comp B

### Mixing ratio calculated by weight.

All weights are in grams.

Amount to be mixed	Weight of Comp A	Weight of Comp B	Total
500ml	539	100	639
1 litre	1078	200	1278
1.5 litres	1616	300	1916
2 litres	2155	400	2555

## APPLICATION

### Application conditions:

This material should preferably be applied at temperatures more than 10°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 4°C.

At application temperatures below 10°C, drying and curing times will be significantly extended, and spraying characteristics may be impaired

### Airless spray:

Tip size: Approx. 13-15 thou (0.33-0.38mm)

Tip pressure: Minimum 2500psi (170bar)

### Brush application:

This product can be applied using brush application and is the preferred application method to ensure displacement of water from the substrate.

### Roller application:

The first coat should not be rolled unless the surface is completely dry. Ensure sufficient film thickness is applied. Do not roll out too thinly.

### Thinning:

SHIELD – Brushing Thinners may be required when spraying the product to achieve optimum spray characteristics.

### Clean-up:

Clean all equipment after use with SHIELD – Brushing Thinners. 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:

At least 2 years from date of manufacture in unopened containers when stored within a temperature range of 5°C to 32°C.

### Pot life (at 20°C):

4 hours

### Packaging:

2.5l composite packs

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## 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.

This product is compliant to Environmental Protection Act (1990), Clause 20(d) Guidance Notes PG6/23 (97).

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## 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](http://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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