

BALLASTIC EPOXY

PRODUCT INFORMATION

Coating type:

High-build epoxy undercoat

Typical uses:

As a high-build epoxy undercoat for replacing existing chlorinated rubber, vinyl, acrylated rubber, oleo resinous, alkyds, silicone alkyds, etc

Colours available:

Black

Appearance:

Gloss

Features and benefits:

- Tolerant to surface moisture during application
- High film build can be achieved in a single coat
- High in volume solids
- Low in VOC content – compliant to EPA PG6/23
- Provides excellent barrier protection when replacing existing coatings

TECHNICAL INFORMATION

Theoretical coverage using brush/roller:

A spreading rate of 7.5m² per litre of paint used gives 100 microns dry film thickness

Film thickness:

	Wet film thickness	Dry film thickness
Typical:	135 microns	100 microns
Range:	100-200 microns	75-150 microns

V.O.C.:

206g/m³ EPA Method 24

109g/m³ calculated from formulation to satisfy EU Solvent Emissions Directive

% Volume solids:

75 ± 2% calculated from laboratory formulation

Sag tolerance:

220 microns wet film thickness

Drying time:

Temp.	Touch dry	Firm dry	Overcoat
5°C	16 hrs	24 hrs	24 hrs
10°C	6 hrs	12 hrs	12 hrs
15°C	4 hrs	10 hrs	10 hrs
20°C	3 hrs	8 hrs	8 hrs

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. Existing single pack type paint systems should be rubbed back as close to bare metal as possible. Small areas where the overall thickness of the paint does not exceed 200µ (0.2mm) are acceptable. This will avoid a risk of cracking. For maximum durability, it is recommended that the substrate to be coated is blast cleaned to Sa2.5.

Manually prepared substrates:

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

Wash surfaces using alkaline detergent (most household washing up liquid is suitable) to remove any contamination, prior to abrading.

Abrade all areas to remove as much paint as possible, back to bare metal. Feather edges of any remaining paint, which must be hard and be adhering well. Rinse thoroughly with clean water. Surfaces must be dry before painting.

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	750	100	850
1 litre	1500	200	1700
1.5 litres	2250	300	2550
2 litres	3000	400	3400
2.5 litres	3750	500	

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.

Do not apply in situations where the surface temperature of the substrate is less than 5°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:

Apply evenly with a full wet brush.

Roller application:

Do not roll out too thinly. The first coat is best applied with a brush, working the paint into any pitted areas.

Thinning:

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

Clean-up:

Clean all equipment after use with SHIELD – Epoxy 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.

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Pot life (at 20°C):

4 hours

Packaging:

5L composite 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

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).

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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