New Guard Coatings Group

A global reputation to protect.

The information herewith is given with the best of New Guard Coatings Group knowledge.

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This information is not exhaustive and it is the user's responsibility to ensure that this data sheet is the most current by contacting their local New Guard Coatings Group branch prior to using the coating/product.

Protective & Marine Coatings

EPIDEK™ M339
EPOXY DECK COATING

Revised 09/2019 Issue 20

PRODUCT INFORMATION

PRODUCT DESCRIPTION

A 3-pack epoxy high build anti-slip deck coating

RECOMMENDED USE

Designed for spray application using suitable equipment (see overleaf) as a high profile anti-slip deck paint.

May be applied directly to suitable sound deck coatings.

ENDORSEMENTS

Approved by MoD/DRA to DEF STAN 80-134 Type 2 : Rough texture, and can be applied in a single coat application or as a 2-coat scheme BS476 Part 7 – Surface Spread of Flame Material – for details of substrate/scheme, consult Sherwin-Williams

RECOMMENDED APPLICATION METHODS

Spray (see overleaf)

Recommended Cleanser Thinner: No 5

PRODUCT CHARACTERISTICS

Flash Point: Base : 23°C Additive : 24°C

% Solids by Volume: 71 ± 4% (ASTM-D2697-91)

Pot Life: 6 hrs @ 15°C 4 hrs @ 23°C

Colour Availability: Limited Range

VOC
250 gms/litre determined practically in accordance with UK Regulations PG6/23
258 gms/litre calculated from formulation to satisfy EC Solvent Emissions Directive
133 gms/kilo content by weight from formulation, to satisfy EC Solvent Emissions Directive

RECOMMENDED THICKNESS

	Dry film thickness	Wet film thickness	Theoretical coverage
Single coat specification	400 microns	563 microns	1.8m²/ltr*
Two coat specification	200 microns	282 microns	3.6m²/ltr

* The above thicknesses are theoretical, but in practice as the material has such a high textured profile traditional wet and dry film thickness measurement is not possible.

* Practical experience shows that at a nominal coverage rate of 3.6m²/ltr, the film thickness achieved meets the requirements of DEF STAN 80-134 Type 2 Flight Deck Specification in a 2-coat system.

AVERAGE DRYING TIMES

	@ 15°C	@ 23°C
To touch:	6 hours	4 hours
To recoat:	6 hours	4 hours
To handle:	24 hours	16 hours
Pot Life:	6 hours	4 hours

These figures are given as a guide only. Factors such as air movement and humidity must also be considered.

RECOMMENDED PRIMERS

STEEL
Macropoxy C425V2 Zinc Phosphate Primer/Buildcoat
Macropoxy M922 Epoxy Glass Flake
Macropoxy M922M Surface Tolerant
Macropoxy L425 Zinc Phosphate Primer
Zinc Clad M501 Epoxy Zinc Rich Primer

ALUMINIUM
Macropoxy L425 Blast Primer for Aluminium

RECOMMENDED TOPCOATS

Not normally required other than with itself – consult individual specifications for details.

If required Macropoxy M262 may be used for markings, it is available in a full range of colours.

The following topcoats are also suitable:
Acrolon C137V2
Acrolon C237
Acrolon 7300
Macropoxy 646

Optimum intercoat adhesion properties will normally be achieved if overcoated within 7 days at 23°C.

PACKAGE

A three component material supplied in a 20 litre pail to be mixed prior to use

Pack Size: 10 litre unit when mixed

Mixing Ratio: 1.83 parts base to 1 part additive by volume plus aggregate

Weight: BSC640 1.95 kg/litre (may vary with shade).

Shelf Life: 18 months from date of manufacture or 'Use By' date where specified.

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SURFACE PREPARATION

Ensure surfaces to be coated are clean, dry and free from all surface contamination.

APPLICATION EQUIPMENT

Spray
Recommended spray gun - Sagola 429/N Hopper Gun, with 6mm tip.
Operating Pressure : 2.8kg/cm2 (40 psi).
Alternatively, air agitated pressure pot systems have been found to produce satisfactory application of M339.
Operating Pressure (pot) : 0.35 - 0.70kg/cm2 (5-10 psi)
(tip) 3.85-4.55kg/cm2 (55-65 psi).

Tip Size 4-8mm- Consult Sherwin-Williams for further details.
Due to the textured nature of this material it is recommended that application should be at the stated spread rate.
The details of tip size and pressure are given as a guide only.

Mixing Instructions
Epidek M339 is supplied as three components, all packed in a 20 litre pail viz.
1 x 5 litre can containing 4.57 litres base.
1 x 2.5 litre can containing 2.5 litres additive.
10.79kg aggregate in a plastic bag.
Remove all three components from 20 litre pail. Return base and additive to 20 litre pail and stir thoroughly. Continue stirring whilst gradually adding aggregate until a homogeneous mixture is obtained.

The total mixture provides a 10 litre, ready for use, mixed unit.

APPLICATION CONDITIONS AND OVERCOATING

Epoxy paints should preferably be applied at temperatures in excess of 10°C. In conditions of high relative humidity, i.e. 80-85% good ventilation conditions are essential. Substrate temperature shall be at least 3°C above the dew point and always above 0°C.

At application temperatures below 10°C, drying and curing times will be significantly extended, and spraying characteristics may be impaired.
Application at ambient air temperatures below 5°C is not recommended.

In order to achieve optimum water and chemical resistance, temperature needs to be maintained above 10°C during curing.
If it is desired to overcoat outside the times stated on the data sheet, please seek advice of Sherwin-Williams.

ADDITIONAL NOTES

Drying times, curing times and pot life should be considered as a guide only.

The curing reaction of epoxies commences immediately the two components are mixed, and since the reaction is dependent on temperature, the curing time and pot life will be approximately halved by a 10°C increase in temperature and doubled by a 10°C decrease in temperature.

Slight variation in colour between different batches may be experienced. It is advised that joining up in the middle of the surface with different batches should be avoided.

Epoxy Coatings - Colour Stability:
Variable colour stability is a feature of epoxy materials which tend to yellow and darken with age whether used on internal or external areas. Therefore any areas touched-up and repaired with the same colour at a later date may be obvious due to this colour change.

When epoxy materials are exposed to ultra-violet light a surface chalking effect will develop. This phenomenon results in loss of gloss and a fine powder coating at the surface which may give rise to colour variation depending on the aspect of the steelwork. This effect in no way detracts from the performance of the system.

Epoxy Coatings - Tropical Use
Epoxy paints at the time of mixing should not exceed a temperature of 35°C. At this temperature the pot life will be approximately halved. Use of these products outside of the pot life may result in inferior adhesion properties even if the materials appear fit for application. Thinning the mixed product will not alleviate this problem. The maximum air and substrate temperature for application is 50°C providing conditions allow satisfactory application and film formation. If the air and substrate temperatures exceed 50°C and epoxy coatings are applied under these conditions, paint film defects such as dry spray, bubbling and pinholing etc. can occur within the coating. Numerical values quoted for physical data may vary slightly from batch to batch.

HEALTH AND SAFETY

Consult Product Health and Safety Data Sheet for information on safe storage, handling and application of this product.

WARRANTY

Any person or company using the product without first making further enquiries as to the suitability of the product for the intended purpose does so at their own risk, and Sherwin-Williams can accept no liability for the performance of the product, or for any loss or damage arising out of such use.

The information detailed in this Data Sheet is liable to modification from time to time in the light of experience and of normal product development, and before using, customers are advised to check with Sherwin-Williams, quoting the reference number, to ensure that they possess the latest issue.
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