New Guard Coatings Group

A global reputation to protect.

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

Rights are reserved to change and update the data without notice.

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™ M377
EPOXY DECK COATING

Revised 02/2016 Issue 15

PRODUCT INFORMATION

PRODUCT DESCRIPTION

A specially formulated 2-pack epoxy deck coating with suitable profile and co-efficient of friction to comply with current MoD(N) requirements for flight decks and weather decks.

RECOMMENDED USE

Over suitably primed surfaces of steel or aluminium.
May be used over suitably prepared concrete substrates.

ENDORSEMENTS

Approved by MoD/DRA to AFS No. 1791 and DEF STAN 80-134 Type 1 Medium Texture.

BS476 Part 7 - Surface Spread of Flame Material - for details of substrate/scheme, consult Sherwin-Williams

RECOMMENDED APPLICATION METHODS

Brush
Spray (see overleaf)

Recommended Thinner: No 5

PRODUCT CHARACTERISTICS

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

% Solids by Volume: 62 ± 3% (ASTM-D2697-91)

Pot Life: 10 hours at 15°C 8 hours at 23°C

Colour Availability: Limited range.

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

TYPICAL THICKNESS

Dry film thickness	Wet film thickness	Theoretical coverage
250 microns	403 microns	2.5m²/ltr*

** This figure makes no allowance for surface profile, uneven application, overspray or losses in containers and equipment. Film thickness will vary depending on actual use and specification.*

PRACTICAL APPLICATION RATES - MICRONS PER COAT

	Brush	Spray
Dry	125*	250
Wet	202	403

** Multicoats will be required to achieve 250 microns normally specified*

AVERAGE DRYING TIMES

	@ 15°C	@ 23°C
To touch:	4 hours	3 hour
To recoat:	6 hours	4 hours
To handle:	24 hours	16 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 L425 Zinc Phosphate Primer

ALUMINIUM: Macropoxy L425 Zinc Phosphate Primer

RECOMMENDED TOPCOATS

Normally applied as a two coat system.
Indefinitely self overcoatable, provided that surface is clean, dry and free from contamination.

PACKAGE

A two component material supplied in separate containers to be mixed prior to use.

Pack Size:	20 litre, 4 litre and 1 litre units when mixed.
Mixing Ratio:	4 parts base to 1 part additive by volume.
Weight:	Black 1.59 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.
For application onto concrete substrates consult Sherwin-Williams for full scheme details.

APPLICATION EQUIPMENT

Brush
The material is suitable for brush application. Application of more than one coat may be necessary to give equivalent dry film thickness to a single spray applied coat.

Spray
Recommended spray gun - Sagola 429/N Hopper Gun, with 4mm tip.

APPLICATION CONDITIONS AND OVERCOATING

Epoxy paints should preferably be applied at temperatures in excess of 10ºC. In conditions of high relative humidity, ie 80-85% good ventilation conditions are essential. Substrate temperature shall be at least 3ºC 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 10ºC 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 a 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.