



EPIDEK™ M377

EPOXY DECK COATING

Revised 10/2024 Issue 16

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

Designed for application over suitably primed surfaces of steel or aluminium.

PRODUCT TECHNICAL DATA

Volume Solids:	62 ± 3% (ASTM-D2697-91)
Weight Solids:	80 ± 2 %
VOC:	330 g/l determined practically in accordance with UK Regulations PG6/23. 336 g/l calculated from formulation to satisfy EC Solvent Emissions Directive. 209 g/kg calculated from formulation to satisfy EC Solvent Emissions Directive (UK).
Colours:	Olive Green, Black, Grey and White.
Flash Point:	Base: 24°C, Hardener: 24°C
Cleaner/Thinner:	Cleanser/Thinner No.5 for cleaning. Thinning is not recommended.
Pack Size:	A two component material supplied in separate containers to be mixed prior to use: 20 litre (31.8 kg), 4 litre (6.3 kg) and 1 litre (1.6 kg) units when mixed Weight will vary with colours and density.
Mixing Ratio:	4 parts base to 1 part hardener by volume. 100 parts base to 11.8 parts hardener by weight.
Density:	1.59 kg/l (may vary with colours).
Shelf Life:	18 months from date of manufacture, stored in originally sealed containers in a cool and dry environment.

Recommended Application Methods:

Spray, Brush.

Typical Thickness:

Recommended Spreading Rate Per Coat	
	Typical
Dry	250 µm
Wet	403 µm
Theoretical Consumption*	0.641 kg/m ² 0.403 l/m ²
Theoretical Coverage*	1.56 m ² /kg 2.48 m ² /l

* 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.

Pot Life:

+ 15°C	+ 23°C
10 hours	8 hours

Pot life is dependent on temperature and volume.



EPIDEK™ M377

EPOXY DECK COATING

Revised 10/2024 Issue 16

AVERAGE DRYING TIMES

For 125 µm Dry Film Thickness:

	+ 15°C	+ 23°C
To touch	4 hours	3 hours
To recoat	6 hours	4 hours
To handle	24 hours	16 hours

Maximum recoat time: Indefinitely self overcoatable. Prior to further applications all contamination must be removed.

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

APPROVALS & 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.

SURFACE PREPARATION

Ensure surfaces to be coated are clean, dry and free from all surface contamination such as oil, grease, dirt and corrosion products to achieve satisfactory adhesion.

MIXING

Stir component A very thoroughly using a mechanical paint mixer (start slowly, then increase up to approx. 300 rpm). Add component B carefully and mix both components very thoroughly (including sides and bottom of the container). Mix for at least 3 minutes until a homogeneous mixture is achieved. We recommend to fill the mixed material into a clean container and mix again shortly as described above to avoid incorrect mixing. During mixing and handling of the materials always wear protective goggles, suitable gloves and other protective clothing.

APPLICATION CONDITIONS

Substrate temperature shall be above 0°C and at least 3°C above the dew point. The surface must be dry and free from ice.

Ambient air temperature shall be above + 5°C.

Material temperature shall be above + 10°C.

Relative air humidity shall be below 85 %.

APPLICATION EQUIPMENT

The following is a guide. Changes in pressures and tip sizes may be needed for satisfactory application characteristics.

Spray

Recommended spray gun: Sagola 429/N Hopper Gun, with 4mm tip.
Operating Pressure: 2.8 bar (40 psi).

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.

If in doubt consult Sherwin-Williams customer service.

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.

RECOMMENDED SYSTEMS

Recommended primers:

Macropoxy® C425V2 or Macropoxy® L425

Recommended topcoats:

Normally applied as a two coat system.

Indefinitely self overcoatable, provided that surface is clean, dry and free from contamination.

ADDITIONAL NOTES

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

Epoxy Coatings - Tropical Use:

Epoxy coatings at the time of mixing should not exceed a temperature of 35°C. 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.

Epoxy Coatings - Colour Stability:

Variable colour stability is a feature of epoxy coatings 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 coatings are exposed to ultra-violet light a surface chalking effect will develop. This phenomenon results in a loss of gloss and a fine powder deposit 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.

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.

Numerical values quoted for physical data may vary slightly from batch to batch.



EPIDEK™ M377

EPOXY DECK COATING

Revised 10/2024 Issue 16

HEALTH & SAFETY

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

WARRANTY

Whilst all statements made about our products (whether in this data sheet or otherwise) are correct and accurate to the best of our knowledge, we have no control over the quality or the condition of the substrate, the application conditions or the many other factors affecting your use and application of our product.

The appropriateness of the product under the actual conditions of application or intended use must be determined exclusively by you. The content of this document, and of any oral or written statements already made or to be made in relation to the subject matter of this document, including any suggestions as to appropriate products and any proposed application methods, technical details and other product information represent only test results or experience obtained under controlled or defined circumstances, and is therefore provided for general information purposes only.

Unless we agree specifically in writing to do so, we will not be liable to you for any loss or damage whether in contract, tort (including negligence), breach of statutory duty, misrepresentation, misstatement or otherwise, arising under or in connection with this document or such statements.

We disclaim any express or implied representations, warranties or guarantees (including any implied warranty of merchantability or fitness for a particular purpose), though nothing in this disclaimer excludes or limits our liability for death or personal injury arising from our negligence, or our fraud or fraudulent misrepresentation, or any other liability that cannot be excluded or limited by law.

All products supplied and technical advice given are subject to our Standard Terms and Conditions of Sale which you should request a copy of and review carefully.

This document may be modified and updated from time to time, and is uncontrolled once printed. It is the users responsibility to ensure they are using the most up to date version – this can be found at: www.sherwin-williams.com/protectiveEMEA.

If this datasheet has been translated, then it has been done using the English version as the source. In case of any queries, please refer to the master English version which can be found at: www.sherwin-williams.com/protectiveEMEA.