AMC
AQUARIUS MARINE COATINGS

M.E. 100

Universal Marine Epoxy Resin

The High Performance Solvent Free Osmosis Prevention System

Product Description:

- M.E.100 is a two component solvent free epoxy coating, specifically developed for the long term protection of surfaces under total immersion conditions.
- M.E.100 is the ideal epoxy for use as an anti-osmosis protective coating, by offering a combination of excellent adhesion and immersion resistance to GRP structures.
- M.E.100 is highly resistant to corrosion and moisture penetration, and is for use as a protective coating both internally and externally, as well as above and below the water-line.
- M.E.100 being solvent free, does not suffer from solvent entrapment, enabling an osmosis resistant system to be achieved in just one application when applied by hot airless spray.

M.E. 100 anti-osmosis epoxy resin offers numerous money and time saving benefits:

a) Simple three to one mixing ratio.
b) Easy application by roller, brush or spray.
c) Single application from 100 microns to 1mm without sagging.
d) Excellent proven resistance to moisture penetration.
e) Excellent proven chemical and corrosion resistance.
f) Can be overcoated with any marine paint coating.

Colour

Available in off white, grey and black.

Surface Preparation:

GRP: Abrade with 80 or 120 grade abrasive paper, or abrasive blast clean, to remove all surface contamination and to provide a good physical key.

Steel: Abrasive blast clean to a minimum standard SA 2.5 or equivalent.

Aluminium: Abrade, and prime with the appropriate M.E. PRIMER.

Ferro-cement: Lightly abrasive blast clean, using wet abrasive.

Remove all surface dust and debris prior to coating.

Mixing:

Components:	Supplied in two parts: Base component and Activator component.
Mixing Ratio:	3 parts Base to 1 part Activator, by volume.
Shelf Life:	Minimum 1 year in unopened containers, stored between 5°C and 30°C.
Packaging:	Available in 2.5 Ltr and 5 Ltr units. Larger sizes by arrangement.
Mixing:	Stir Base component, continue stirring and gradually add Activator component. Stir thoroughly until a total homogeneous mix is obtained.

Application Guidelines:

Conditions for Application:	M.E. 100 is unaffected by relative humidity. Minimum temperature for application is 5°C.

M.E. 100 can be applied by short or medium pile rollers. Good quality brushes can be used for small areas.

When applied by roller, several coats may be required to build an effective barrier against osmosis. Depending on the surface and product temperature, and roller type and technique, the typical application thickness may vary between 150 and 250 microns per coat. For best results, ensure that both the surface and the product are above 10°C.

In professional applications, the Boat-builder may prefer to employ spray equipment.
M.E. 100 can be applied by large capacity airless spray or plural feed hot airless spray.

Please contact A.M.C. for further spray advice and settings.

When professionally applied by hot airless spray, M.E. 100 can be applied to a thickness of up to 1000 microns in one coat without sagging.

Clean all equipment immediately after use with M.E. Universal Thinners.

Technical Summary:

Touch Dry:	6 Hours.
Hard Dry:	16 Hours.
Overcoating:	Minimum 2 Hours, Maximum 48 Hours.
Pot (Usable) Life:	1 Hour

N.B. All above at 20°C/68°F

Full Chemical Cure:	7 Days.
Total Solids Content:	100%. (ASTM D2697 1973)
Specific Gravity:	1.5.
Film Thickness:	Wet 250 microns, Dry 250 microns.
Theoretical Coverage:	4 sq. mts. per Ltr at 250 microns dry film thickness.

Health & Safety Information:

1. Adequate ventilation must be provided.
2. Undue contact with skin should be avoided.

Full Health & Safety Data is available from A.M.C. Ltd.

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