

## **DATA SHEET**

### **105** **WATER BASED EPOXY ENAMEL**

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V1-28/11/2014

#### **GENERAL DESCRIPTION**

- 105 Water Based Epoxy is designed for easy and safe application. It possesses most of the properties of conventional epoxy resins. Once cured, the coating will give a hard, tough and durable finish.

#### **PROPERTIES**

- Excellent adhesion to most surfaces including damp concrete
- Easy to apply
- No solvents, clean equipment with water

#### **CHEMICAL RESISTANCE**

- Resistant to most dilute acids and alkalis, petroleum products and water.

#### **RECOMMENDED AREAS FOR USE**

Economical floor and wall coating for light traffic areas in :

- Food processing plants
- Ablution blocks
- Schools and hospitals

#### **SURFACE PREPARATIONS**

- Although 105 Water Based Epoxy will over-coat most other finishes and paint, the best results are achieved when surfaces are clean and free of other coatings. Diamond grinding or acid etching is preferred methods to remove laitance. Surfaces may be dry or damp but free of standing water. Very dry surfaces should be primed with an extra coat of 105. Surface defects should be filled with 301 Water Based Epoxy Scraper Coat.

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#### **PRIMING**

- **Concrete and cement plaster** : Prime with 103 Clear Primer
- **Steel**: Prime with 501 Zinc Phosphate Primer

#### **APPLICATION**

- Mix the Epoxy and activator in the proportions given. Mechanical slow mixing is preferable. Apply by brush, roller or airless spray. Over - coating may proceed as soon as the previous coat is touch dry. After priming apply 2 or 3 coats @ 8m<sup>2</sup>/litre per coat.

SPECIAL NOTE: Only mix sufficient material that can be applied within 1 hour. Although the material may still seem workable after 1 hour, the mixed material will have exceeded its pot life which will affect the film properties

#### **CLEANING EQUIPMENT**

- Clean all equipment immediately after use with Water Soluble Brush Cleaner

#### **SAFETY**

- Although 105 Water Based Epoxy is relatively non-toxic, it is recommended that the normal precautions in dealing with conventional Epoxy systems are adhered to. Refer to the 16 point Material Safety Data Sheet.

#### **HOW TO SPECIFY**

- All surfaces to be suitably prepared and primed, followed by 2 to 3 coats of 105 Water Based Epoxy applied according to the manufacturer's instructions.

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#### TECHNICAL DATA

<b>NUMBER OF COMPONENTS</b>	: 2
<b>COLOURS</b>	: Refer to colour chart
<b>MIXING RATIO</b>	: 4 parts base : 1 part activator
<b>FINISH</b>	: Satin
<b>POT LIFE</b>	: 1 hour @ 25°C
<b>VOC</b>	: 440
<b>OVERCOATING TIME</b>	: 6hrs – 24hrs
<b>TOUCH DRY</b>	: 6hrs
<b>FULL CURE</b>	: 7Days
<b>AVERAGE SPREAD RATE</b>	: 8m <sup>2</sup> /l/coat
<b>VOC</b>	: 43 grams per litre
<b>D.F.T. @ 8m<sup>2</sup>/litre</b>	: 60µ
<b>NUMBER OF COATS</b>	: 2 to 3 plus primer
<b>APPLICATION TEMPERATURE</b>	: 10 to 40°C
<b>SERVICE TEMPERATURE LIMITS</b>	: Dry 80°CWet 60°C
<b>SHELF LIFE</b>	: 12 Months
<b>PACKAGING</b>	: 5 and 20 litres

The technical data furnished is obtained from controlled laboratory tests under ideal application conditions. No guarantee of any performance characteristic is therefore given or implied and we do not hold ourselves responsible for any consequential damage of whatsoever nature that may arise from use of our products. In the event of a proven fault our liability will be limited to the replacement of the product only. It is the users' responsibility to confirm the currency of product data sheets.