



# EpiMax 222AR

## Acid Resistant Flooring System

### Introduction

EpiMax 222AR is supplied as a two component, low viscosity solventless epoxy system, pre-packaged in correct proportions for use.

EpiMax 222AR is suitable for a variety of applications including the preparation of long lasting industrial flooring as well as general use in structural applications and concrete restoration where extreme chemical resistance is required.

The EpiMax 222AR Acid Resistant Flooring System offers a combination of application ease and extreme chemical resistance.

### Systems and services that set new standards

EpiMax 222AR Acid Resistant Flooring System is also available as an element of the complete EpiMax Floor Safety Process.

The implementation of this process has the potential to reduce the risks of workplace injuries generally, reduce the human and economic cost of slip, trip and fall injuries, reduce insurance claims and costs and reduce exposure of companies, management and boards to workplace duty of care action.

The process incorporates the EpiMax 200 Point Hazard Reduction Analysis.



### Key features

- Tough and abrasion-resistant; excellent for heavy traffic
- Excellent resistance to a wide range of industrial chemicals
- Good temperature resistance
- Anti-microbial formulation
- Non flammable

### Typical applications

- Water treatment & supply
- Food production
- Meat processing
- Dairy production
- Sugar production
- Textile production
- Chemical production
- Warehousing facilities
- Correctional facilities
- Paper manufacturing
- Beverage production
- Commercial laundries
- Port & marine usage
- Wash & change-rooms
- Waste water treatment
- Mining operations
- Smelting & reduction

### Typical properties

- Tensile strength: >15 MPa
- Compressive strength: >40 MPa
- Flexural strength: >15 MPa
- Hardness: 70-80 Shore D

### The system is resistant to splashes and spills of many chemicals:

- Sulphuric acid
- Sodium hydroxide
- Ammonia solution
- Hydrochloric acid
- Nitric acid
- Acetic acid 10%
- Lactic acid 5%
- Ethyl acetate
- Phosphoric acid 20%

Some surface staining may result from exposure to some aggressive chemicals. Good housekeeping practice will always ensure spills and splashes are quickly cleaned up and neutralized.

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## **Installation techniques**

EpiMax 222AR Acid Resistant Flooring System will only be applied by EpiMax Accredited Applicators. These applicators have been trained in the installation techniques demanded on specific applications.

### **Sub-floor preparation**

Concrete should be at least 28 days old. Ensure sub-floor is clean, dry and free of additives, curing agents, oils, etc. Prepare sub-floor by acid etching/neutralizing/washing, professional grinding or captive blast cleaning as applicable to expose firmly adhered aggregate. Allow to dry if wet. Always confirm preparation adequacy. Surface profile should exceed CSP 5.

### **Priming**

Prime concrete sub-floor using mixed EpiMax 222AR at a rate of 8 sq m/litre. Protect all newly primed surfaces and allow to harden fully, but the next stage should be applied within 24 hours of priming. If this time is exceeded the sub-floor must be reprimed.

### **Application**

Review the sub-floor area in advance so that a fixed volume of mixed material can be applied over a fixed area to ensure correct application rate. Select a slow speed (400 rpm) mechanical mixer and ensure thorough mixing. Add EpiMax 222AR Hardener to EpiMax 222AR Compound. Mix until uniform. Combine with nominated quantity and grade of aggregate/s slowly, while mixing, until a uniform consistency is obtained. Apply to prepared sub-floor as nominated. Seal the finished surface appropriately with EpiMax 222AR.

### **General cleaning**

Housekeeping is critical in keeping floor surfaces safe. Vacuum, wash, scrub or sweep daily in accordance with recommendations. Mechanical sweepers and scrubbers can provide excellent results. Verify that the frequency and effectiveness of the cleaning process is appropriate for site conditions. Remove spills immediately, scrub and allow the floor to dry completely.

### **Packaging**

EpiMax 222AR is available in 20 litre packs. It is pre-packed in correct proportions for use.

Ordering Information: EpiMax 222AR 20 litre #9022620

### **Safety precautions**

Read **Material Safety Data Sheet** before commencing any application.

Keep away from children. Avoid contact with skin and avoid breathing vapour. Always provide adequate personal protection (gloves & goggles etc) during use. Always provide adequate ventilation, especially in confined spaces. If poisoning occurs, call Doctor or Poisons Information Centre. Phone 13 11 26. If swallowed, DO NOT induce vomiting. Give plenty of water or milk. If skin contact occurs, quickly remove contaminated clothing and wash affected areas thoroughly with soap and water.

TDG Code: Hardener - UN 1760 Compound - Not Classified

### **EpiMax 222AR specification**

The system is **EpiMax 222AR Acid Resistant Flooring System** as supplied by EpiMax.

The procedure for sub-floor preparation, priming, application and curing should be in strict accordance with the manufacturer's instructions as stated in the current Product Bulletin.

All statements, technical information, and recommendations related to EpiMax systems are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this system, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use.

Any statements related to the system which are not contained in EpiMax current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of EpiMax.



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