



EpiMax 421HAR

High Acid Resistant Coating

Description

EpiMax 421HAR High Acid Resistant Coating represents a new development in field applied performance coating systems especially developed for a variety of chemically demanding applications including the preparation of industrial flooring, chemically resistant linings and general secondary containment.

EpiMax 421HAR High Acid Resistant Coating is a high-solids, high-build, novolac coating which provides the highest level of chemical and abrasion resistance to concrete, steel, and other surfaces. It is supplied as a two component system and can be applied by roller or airless spray.

EpiMax 421HAR High Acid Resistant Coating also offers fast curing and allows prompt return to service. The coating can display some tendency to darken in external applications.



Advantages

- Tough and abrasion-resistant
- Highest chemical resistance
- Excellent low temperature cure
- Generally resistant to water spotting
- Latest high performance chemistry
- Long lasting durability
- High build - easy application
- Pre tinted

Typical applications

- Water treatment & supply
- Food production
- Meat processing
- Dairy production
- Chemical production
- Paper manufacturing
- Port & marine terminal operations
- Battery manufacturing & recycling
- Bunded facilities
- Plating shops
- Pharmaceutical industries
- Waste water treatment
- Chemical containment
- Mining operations
- Animal care centres

Typical properties

- Shelf life: 2 Years
- Solids content: 85% v/v
- Mix ratio: 1 Hardener: 5 Compound
- Work time per pack: 30 minutes at 25°C
- Tack free time: 4 hours at 25°C
- Recoating time: 12 - 16 hours at 25°C
- Cure time: 7 days at 25°C
- Coverage/pack- theoretical 48m²/coat @ 140 um dft

Chemical resistance

EpiMax 421HAR is resistant to a wide range of chemicals. Specific data is available on request.

Typical resistance to spillages includes: (examples only)

- Ammonia solution
- Sulphuric acid
- Lactic acid 20%
- Acetic acid 20%
- Skydrol
- Sodium hydroxide
- Sodium chloride
- Volatile hydrocarbon solvents
- Kerosene
- Diesel
- Petrol
- Hydrochloric acid
- Vegetable oils

Surface staining may result from exposure to some aggressive chemicals. Seek EpiMax advice for specific applications.

Estimating data

14.4 ltr EpiMax 421HAR Acid Resistant Epoxy Coating = 29 sq m (3 x 140 um dft)

Surface preparation

Concrete should be at least 28 days old and free of additives, curing agents, curing oils etc. Remove all loose, crumbly and drummy areas to obtain a sound surface. Ensure that surfaces are free of dust, oil and grease. Allow to dry if wet.

Prepare concrete by professional diamond grinding or captive blast cleaning as applicable to exceed CSP 3 Standard.

Prepare steel surfaces in accordance with AS 1627-2002.

Always confirm preparation adequacy.

Application

Review the 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 421HAR Hardener to EpiMax 421HAR Compound. Mix until uniform.

EpiMax 421HAR is self priming. Prime at a rate of 6 sq m/litre. Thin if necessary with up to 10% xylene.

EpiMax 421HAR can be applied by roller or airless spray in three coats (minimum) to achieve a total 420 micron dft.

Observe recoating window. If this time is exceeded, the coating should be lightly reground to maximize intercoat adhesion.

Allow the coating to cure for 7 days prior to subjecting to chemical exposure.

EpiMax 421HAR can be applied to meet the requirements of HB197 Pedestrian Flooring Selection System Guidance.

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 421HAR is available in 14.4 litre packs (includes Hardener and Compound). It is pre-packed in correct proportions for use.

Ordering Information: EpiMax 421HAR 14.4 litre #9042114

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 - UN2735, Compound - UN 1993.



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