

Solventless Performance Epoxy Coating

Description

EpiMax 330 Solventless Performance Epoxy Coating is a heavy duty, industrial coating system for concrete floors and walls that is attractive and easily cleaned. EpiMax 330 is considered food safe and meets the requirements of the Australia New Zealand Food Standards Code, Food Premises and Equipment Standard 3.2.3.

Floors in food premises must be able to be cleaned effectively and thoroughly, must not absorb grease, food substances or water, harbour pests, and should be installed so as not to cause pooling of water.

Unprotected concrete is porous and allows water and water-soluble chemicals to easily migrate through slab or wall. In food premises, these pores can become sites for bacterial growth. Aggressive chemicals will also penetrate the concrete surface through these pores and cause deep contamination. Organic acids from food processing operations can penetrate and attack concrete causing failure. Industrial chemical solutions can penetrate the slabs and attack reinforcing steel.

Surfaces protected with EpiMax 330 are highly resistant to chemical attack and the mechanical loadings of forklift, commercial and vehicular activities.

This system also finds applications in hospitals, schools and industrial installations.

When used in conjunction with an appropriate slip resistant media (R10 - R13), EpiMax 330 is suitable for use in wet areas where strict levels of hygiene and cleanliness are required or where chemicals are manufactured, spilled or are an integral part of the process.

EpiMax 330 is suitable for the maintenance and lining of water treatment tanks and equipment due to its sound chemical resistance and non-tainting properties. It is potable water approved to AS 4020. If a coating with higher chemical resistance or in wastewater applications is required, consider EpiMax 333AR High Build Acid Resistant Coating.

EpiMax 330 **FAST** is available for faster general cure and also for application at lower temperatures (minimum 5°C).

Advantages

- Non taint, odourless and food safe
- High build - easy application
- Excellent adhesion
- High abrasion resistance
- Meets AS 4586 Slip Resistance standard
- Meets AS 4020:2005 Potable water approved
- Colourpack system - field choices
- Fast installation - roller or spray
- Self priming
- High chemical resistance
- Meets GBCA Low VOC standard
- Meets BCA CRF Fire standard
- Good durability - maintenance free
- Factory tints for large projects

Typical applications

- Food production
- Commercial kitchens
- Chemical production
- Restaurants
- Port and marine usage
- Mining operations
- Retirement facilities
- Meat processing
- Water utilities
- Warehousing facilities
- Education facilities
- Wash and change-rooms
- Parking facilities
- Sugar refineries
- Dairy production
- Water tank lining
- Correctional facilities
- Commercial laundries
- Beverage and fermentation production
- Hospitals
- Automotive service facilities



Typical properties

- Shelf life: 2 Years
- Volume solids content: 100%
- Mix ratio: 1 Hardener: 3 Compound by volume
- Work time, 16 L pack: 30 minutes at 25°C;
15 minutes at 25°C for *FAST* grade
- Recoating window: 12 - 24 hours at 25°C;
6 - 12 hours at 25°C for *FAST* grade
- Light traffic: 12 - 24 hours at 25°C;
9 - 18 hours at 25°C for *FAST* grade
- Cure time: 7 days at 25°C; 3 days at 25°C for *FAST* grade
- Coverage/16 L pack- theoretical 80 m²/coat @ 200 micron dft



Chemical resistance

EpiMax 330 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 30% | • Acetic acid 5% |
| • Skydrol | • Sodium hydroxide 30% | • Sodium chloride |
| • Volatile hydrocarbon solvents | • Kerosene | • Diesel oil |
| • Petrol | • Hydrochloric acid | • Vegetable oils |

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

Estimating data

16 ltr EpiMax 330 Solventless Food Grade Epoxy Coating = 40 m²
(2 x 200 micron dft).

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 the surface by professional diamond grinding to expose firmly adhered aggregate. Surface profile should exceed CSP 3. Allow surfaces to dry if wet. Always confirm preparation adequacy.



Application

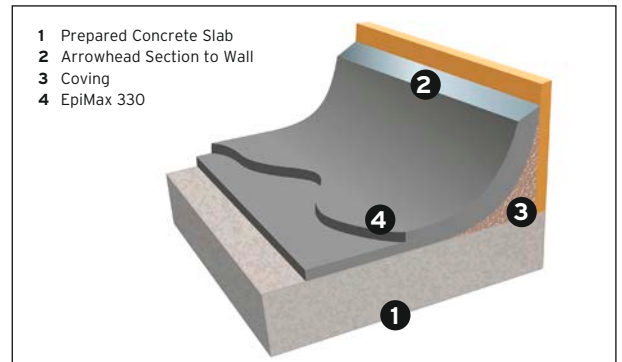
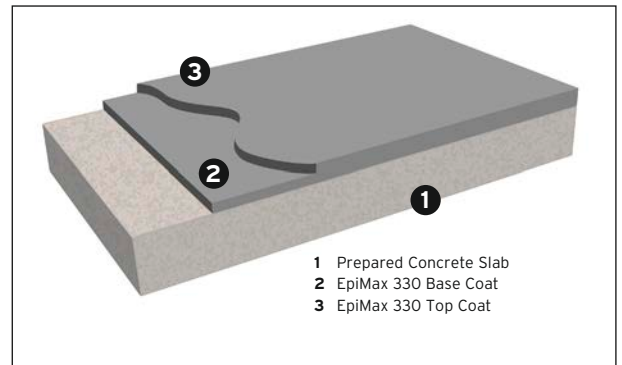
Review the sub-floor area in advance so that a fixed volume of mixed material can be applied over a fixed area to ensure correct application rate. Select a slow speed (400 rpm) mechanical mixer and ensure thorough mixing. Add selected Colourpacks to EpiMax 330 Compound and mix well. Then add EpiMax 330 Hardener to mixed EpiMax 330 Compound/Colourpack. Mix until uniform. Allow the first coat to harden and observe the recoat window.

EpiMax 330 can be applied by roller or airless spray in two coats (minimum) to achieve a total 400 micron dft (minimum). Allow the coating to cure for 7 days prior to subjecting to chemical exposure.

EpiMax 330 can be applied to meet the requirements of HB197 Pedestrian Flooring Selection System Guidance (R10 - R13).

Any coving at the wall to floor intersection, should also be professionally protected with EpiMax 330.

Where required, professional coving can be installed using a trowellable mix of 1 volume of mixed EpiMax 225 and up to 4 volumes of EpiMax Aggregate 3. Please note that coving work is rather specialised and may require some site modification to suit the specific site conditions. Allow to cure and then protect with EpiMax 330.



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 surfaces to dry completely.

Packaging

EpiMax 330 and EpiMax 330 FAST are available in 8 and 16 litre packs (includes Hardener, Compound - Colourpack additional). They are pre-packed in correct proportions for use.

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, Colourpack - Not Classified