

High Build Epoxy Coating

Description

EpiMax 333 High Build Epoxy Coating is a heavy duty, high build, chemically resistant and commercially attractive epoxy coating utilizing proven application engineering chemistry. This system performs well in the demanding environments of forklift vehicular and commercial traffic as well as chemical processing environments. It is suitable for a variety of applications including warehouses, parking garages and chemical plants.



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 333 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. EpiMax 333 can be applied at low temperatures (minimum 5°C) to produce hard wearing, durable surfaces suitable for economical concrete floor protection.

When used in conjunction with an appropriate slip resistant media (R10 - R13), EpiMax 333 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 333 offers excellent mechanical and chemical performance to enhance and protect industrial floor slabs.

Floors protected with EpiMax 333 can be tailored to suit conditions to provide adequate traction in the working conditions of the facility.

Advantages

- High build - easy application
- Good durability - maintenance free
- Meets AS 4586 Slip Resistance standard
- Fast installation - roller or spray
- Excellent adhesion
- Meets BCA CRF Fire Standard
- Protection for years, in minutes
- Self priming
- High abrasion resistance
- Colourpack system - field choices
- High chemical resistance
- Meets GBCA Low VOC Standard
- Factory tints for large projects
- Excellent case histories

Typical applications

- Commercial kitchens
- Wash and change-rooms
- Water utilities
- Port and marine usage
- Commercial laundries
- Sugar refineries
- Retirement facilities
- Meat processing
- Restaurants
- Chemical production
- Mining operations
- Parking facilities
- Hospitals
- Waste and recycling facilities
- Correctional facilities
- Dairy production
- Warehouse facilities
- Education facilities
- Beverage and fermentation production
- Automotive service facilities
- Incineration services

Typical properties

- Shelf life: 2 years
- Volume solids content: 93%
- Mix ratio: 1 Hardener: 3 Compound by volume
- Work time, 16 L pack: 30 minutes at 25°C
- Recoating window: 12-24 hours at 25°C
- Light traffic: 12 - 24 hours at 25°C
- Cure time: 7 days at 25°C
- Coverage/16L pack-theoretical 95m²/coat @ 150 micron dft



Chemical resistance

EpiMax 333 is resistant to a wide range of chemicals. Specific data is available on request.

Typical resistance to spillages includes: (examples only)

- | | | |
|----------------------|------------------------|---------------------------------|
| • Ammonia solution | • Kerosene | • Skydrol |
| • Sulphuric acid 30% | • Sodium Hydroxide 30% | • Volatile hydrocarbon solvents |
| • Sodium chloride | • Diesel oil | • Petrol |
| • Hydrochloric acid | • Vegetable oils | • Acetic acid 5% |

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

Estimating data

16 ltr EpiMax 333 High Build Epoxy Coating = 40m²

(2 x 180 micron dft)

Sub-floor preparation

Concrete should be at least 28 days old. Ensure the 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 confirmation 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 (400rpm) mechanical mixer and ensure thorough mixing. Add selected Colourpacks to EpiMax 333 Compound and mix well. Then add EpiMax 333 Hardener to mixed EpiMax 333 Compound/Colourpack.

Mix until uniform. Allow the first coat to harden and observe the recoat window.

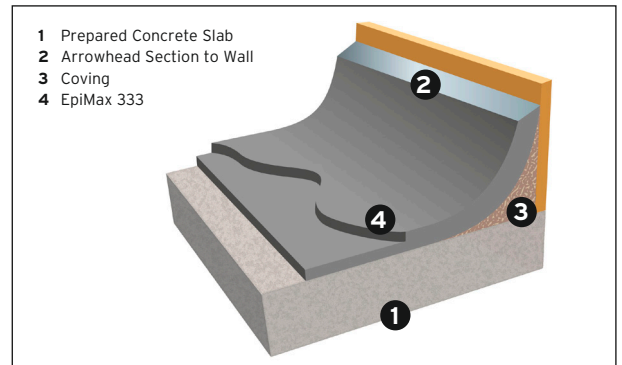
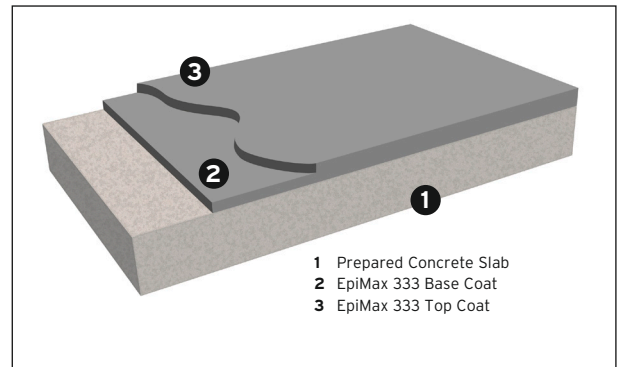
EpiMax 333 can be applied by roller or airless spray in two coats (minimum) to achieve a total 300 micron dft (minimum).

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

EpiMax 333 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 333.

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 EA4. 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 333.



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 333 is available in 16 litre packs (includes Hardener, Compound - Colourpacks (2) additional). It is pre-packed in correct proportions for use.

Safety precautions

Read **Material Safety Data Sheet** before commencing and application. Keep away from children. Contents are flammable. 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 - UN 1993, Colourpack - Not Classified