EpiMax 999HB

Fast Drying Protective Finish

Description

EpiMax 999HB Fast Drying Protective Finish is a hazmat free, water based, two pack performance epoxy coating system formulated to provide ease of application, fast hardening and excellent adhesion to concrete and other prepared and stable surfaces.

It is one of the versatile proven epoxy systems available from EpiMax with the safety and environmental benefits of being hydrocarbon solvent free. These systems are an excellent alternative to solvent-based epoxies in situations where a low VOC and fast drying system is required.

Parking facilities represent very significant commercial and public investments. In today's world they must all start with a positive experience. Parking facilities are the best place to make a good first impression. EpiMax 999HB is an excellent choice to protect and enhance multi-storey parking garages. Slabs are protected from automotive fluids which can penetrate, stain and deteriorate concrete. Additionally, EpiMax 999HB passes the Hot Tyre Test.

In warehouse and distribution operations, where efficiency has a critical influence on both service levels and costs, flooring infrastructure is often overlooked as an important efficiency gain in the overall supply chain. Floors protected with EpiMax 999HB are durable, non dusting and sustainable.

This system is the proven low maintenance solution for general slab protection and enhancement. Bright colours will reflect light onto the surroundings and improve visibility and safety for staff and visitors alike.

From a performance point of view, the excellent long term adhesion and durability offered by a fully crosslinking system provides the facility owner with better value for money than any single pack, non-crosslinking concrete sealer.

Advantages

- Hazmat free/non flammable
- Water based – food safe
- Environmentally friendly
- Fast installation – roller or spray
- Self priming
- Colour choices available
- Minimal tyre squeal
- Good resistance to marking
- Fully cross-linking system – excellent abrasion resistance
- Meets GBCA Low VOC standard
- Meets AS 4586 Slip Resistance standard
- Meets BCA CRF Fire standard
- Anti-dusting formulation
- Good durability

Typical applications

All general retail, commercial & industrial flooring

- Parking facilities
- Warehouses
- Distribution centres
- Retail service areas
- Garden supply
- Shopping malls
- Restaurants
- Correctional facilities
- Self-storage units
- Plant rooms
- Factories
- Automotive

Typical properties

- Shelf life: 12 months
- Mix ratio: 3 vol Part A : 1 vol Part B
- Work time: 30 minutes at 25ºC
- Tack-free time: 2 hours at 25ºC (depends on air flow)
- Full cure: 5 days at 25ºC
- Reaction to fire, CRF: 11.8kW/m^2
- Light traffic: 12 - 24 hours at 25ºC (depends on air flow)
- Recoating window: 6 - 24 hours at 25ºC (depends on air flow)
- Coverage/litre – theoretical: 9 - 10m^2/coat
- Finish: Satin
- Coverage/pack: 140 - 160m^2/coat

Estimating data

16 ltr EpiMax 999HB Fast Drying Concrete Protective Finish = 70 - 80m^2 (typical 2 coats)

General surface 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 sub-floor by professional diamond grinding to expose firmly adhered aggregate. Surface profile should exceed CSP 2. Scrub with clean water and then vacuum. Allow surfaces to dry. Always confirm preparation adequacy.

General application comments

The hardening mechanism is two stage - firstly the contained water evaporates and then the chemical hardening takes place. Consistent air flow will assist the water evaporation stage. Work time may be difficult to visually determine, so always keep track of actual time.

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 999HB Part B to EpiMax 999HB Part A. Mix until uniform. To adjust the viscosity of the first coat, add up to 10% potable water. Note that this will reduce the final film build. Apply in an even coat over the prepared surface at 9 - 10m^2 per litre. When dry to touch, apply a second coat at 9 - 10m^2 per litre.

EpiMax 999HB can be applied by 10 - 11mm nap roller or airless spray.

Open time and wet edge time is affected by temperature and air flow. Higher temperatures and efficient airflow will decrease these times.

Discard unused material when the work time is exceeded (30 - 45 minutes at 25ºC). Work time may be difficult to visually determine, so always keep track of actual time. Always protect from rain for 48 hours after application. Avoid application when relative humidity is >80% and temperature is <12ºC. Exceeding the work time may result in a colour change.

Allow the coating to cure for 5 days prior to subjecting to full exposure. Airflow during the curing period may effect the final gloss level.

Determine site skid resistance requirements in advance and select appropriate EpiMax Aggregates to combine or broadcast. CSIRO/Standards Australia HB 197 Guide to Slip Resistance classifies the slip resistance of various facilities.
These classifications are based on testing to AS/NZS 4586:2013 *Slip resistance classification of new pedestrian surface materials*.

Parking facility concrete protection applications

Prepare the concrete surface as above to exceed CSP 2 profile.

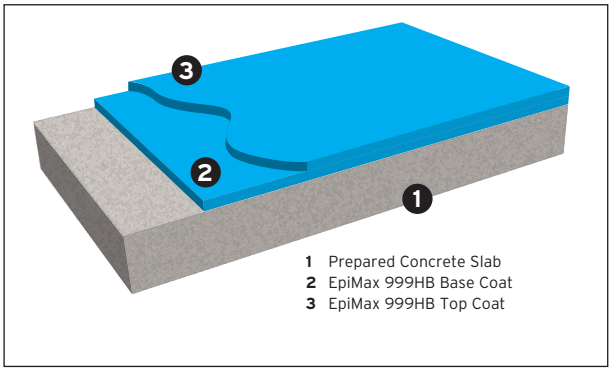
As required, redress surface defects to Parking Structure Slabs: FF 20, FL 15 standards.

Allow surfaces to dry if wet. Always consider slip factor functional requirements and confirm preparation adequacy.

Apply EpiMax 999HB in two coats, each of 9 - 10m² per litre.

Line mark and wheel stop as required.

Clean regularly with power sweeper and scrubber drier.



General industrial concrete protection applications

Prepare the concrete surface as above to exceed CSP 2 profile.

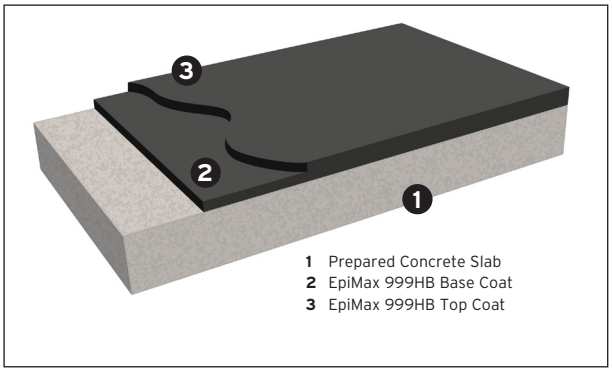
As required, redress surface defects to Warehouse Floor/Moderate or Heavy Traffic: FF 35, FL 25 standards.

Allow surfaces to dry if wet. Always consider slip factor functional requirements and confirm preparation adequacy especially with dense slab finishes.

Apply EpiMax 999HB in two coats, each of 9 - 10m² per litre. Application rate varies with concrete porosity.

Rack and line mark as required.

Clean regularly with power sweeper and scrubber drier.

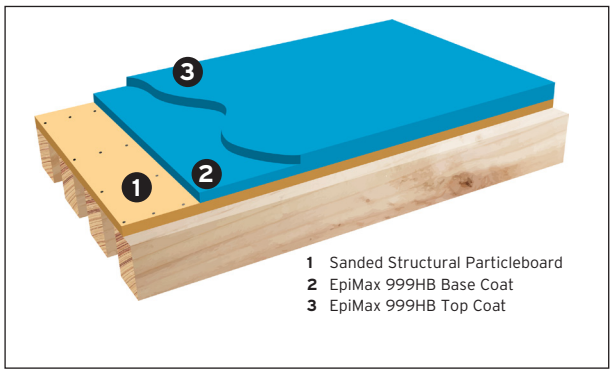


Structural particleboard flooring applications

Power sand the particleboard surface to level sheet joins and fixing points. Even out irregularities and remove any loose weathered particles.

For general purpose sanding use 40-60 grit closed coat paper.

Apply EpiMax 999HB in two coats. Application rate varies with particleboard porosity.



General cleaning

Housekeeping is critical for floor durability and safety. Verify that the frequency and effectiveness of the cleaning process is appropriate for site conditions. Remove spills quickly, wash and allow the floor to dry completely.

EpiMax 999HB protected floors will not dust. However, dust can settle on the floor from other sources (e.g. dusty beams above, blown from outside, from processes and transported in on palletised items).

Floors which are kept clean will last longer. Fine particles of dust, dirt, debris, act as abrasives with traffic unless the floor is cleaned regularly. In the pharmaceutical, cosmetic and food industries, it is particularly important to maintain hygienic surfaces and effective cleaning techniques are essential.

In car parks, dirt brought in vehicle tyres is particularly abrasive and if not removed from the floor, can cause damage in a short space of time.

Large floors protected with EpiMax 999HB are best cleaned by regular power sweeping and then power scrubbing and vacuum drying.

Packaging

EpiMax 999HB is available in 16 litre packs (includes Part A and Part B).
It is 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: Part A - Not Classified, Part B - Not Classified

EpiMax

EpiMax Systems Pty Limited
Sydney • Melbourne • Brisbane • Townsville • Canberra • Perth
Australia ☎ 1300 721 522 info@epimax.com.au