

Extreme Durability Polyurethane Flooring System

Description

EpiMax 465 has been developed for protecting sub-floors exposed to the highest mechanical demands. This system presents excellent resistance to abrasion, mechanical stress and mid range chemical action. Installation is fast and placement is easy. It offers high thermal shock resistance.

EpiMax 465 is ideal for a great variety of industrial processing activities including food and beverage production zones as well as industrial and medical laboratories.

EpiMax 465 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.

When used in conjunction with an appropriate slip resistant media (R10 - R13), EpiMax 465 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 469 is available where resistance to steam cleaning process liquids up to 120°C when applied at 9mm nominal thickness is required.



Advantages

- Hazmat free/non flammable
- Water based - odourless and food safe
- Environmentally friendly
- Fast installation
- High abrasion resistance
- Colour choices available
- Chemically resistant
- Extreme mechanical performance
- Fully cross-linking system - excellent abrasion resistance
- Meets GBCA Low VOC standard
- Meets AS 4586 Slip Resistance standard
- Meets BCA CRF Fire standard
- Easy to clean and sterilise
- Good durability - maintenance free

Typical applications

- Food manufacture and processing
- Dairies
- Abattoirs and meat processing
- Heavy duty plant and traffic areas
- Brewing and beverage
- Commercial kitchens
- Pharmaceutical and chemical plant processing
- Medical and veterinary facilities

Typical properties

- Volume solids: 100%
- Finish: Smooth, matt or non slip
- Slip resistance, BPN: Dry>50; Wet>45
- Flexural strength: 23 MPa
- Cure time:
 - foot traffic - 24 hours;
 - vehicular traffic - 48 hours;
 - chemicals - 7 days
- Work time: 15 minutes at 25°C
- Typical application thickness: 3 - 5 mm and 6 - 9 mm
- Chemical resistance: Excellent, contact EpiMax for specific data
- Compressive strength: >50 MPa

Anti-microbial function

Another feature of EpiMax 465 and 469 is that they have been formulated to provide enhanced bacterial protection in areas that need to be kept clean and sterile.

Estimating data

19kg EpiMax 465 will cover 2.4m² at 4mm or 1.9m² at 5mm

30kg EpiMax 469 will cover 2.5m² at 6 mm or 1.69m² at 9 mm.

Sub-floor preparation

Sub-floors should be dry and not be susceptible from rising damp. If necessary, suitable damp proof membranes must be installed to prevent this.

Concrete should be at least 28 days old. Ensure the sub-floor is clean, dry and free of additives, curing agents, oils, etc. Prepare by 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 4.

To achieve highest adhesion, grooves should be cut into the perimeter of the sub-floor. Typically these are 4mm deep by 3mm wide and spaced 150mm from, and parallel with, the walls and adjacent to doorways, plinths etc, including any finished edges, i.e. both sides of a day-work joint.

For highest durability on old prepared concrete, prime all areas with EpiMax 225 Construction Grade Epoxy Binder at a rate of 5m² per litre. Allow to harden. Two coats may be necessary on very worn, eroded or porous surfaces to completely seal the surface.

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 465 Hardener to EpiMax 465 Compound and mix thoroughly. Then add EpiMax 465 Aggregate to the mixed EpiMax 465 Hardener/Compound. Mix until uniform.

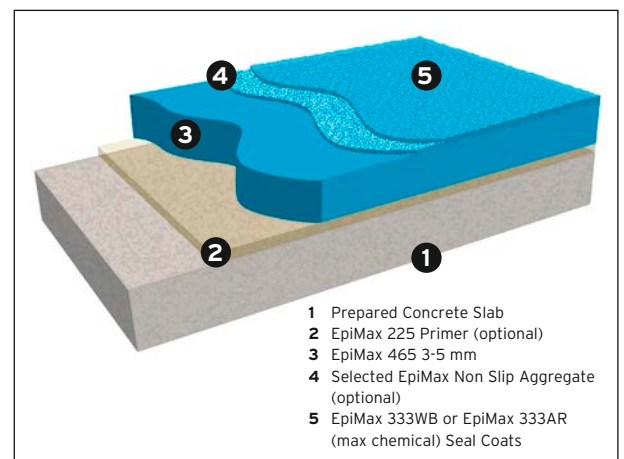
Slowly and evenly pour the mix onto the prepared sub-floor and spread evenly over the surface using either a steel float or notch trowel. Finish with spiked roller as necessary.

The system assumes a non-reflective surface after hardening.

EpiMax 465 can be combined with suitable grades of aluminium oxide to produce surfaces meeting AS 4586 R10-R13.

These surfaces can then be top-coated with EpiMax 333WB Performance Water Based Epoxy Coating in a two coats.

Other top coating options include EpiMax 330, EpiMax 333AR and EpiMax 460.



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 465 is available in 19kg kits (includes Hardener, Compound and Aggregate). It is pre-packaged in correct proportions for immediate use.

Ordering Information: EpiMax 465 19kg # 9046519

EpiMax 469 is available in 30kg kits (includes Hardener, Compound and Aggregate). It is pre-packaged in correct proportions for immediate use.

Ordering Information: EpiMax 469 30kg # 9046930

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 - Not Classified, Compound - Not Classified, Aggregate - Not Classified