



EpiMax 460 SERIES

Extreme Durability Polyurethane Flooring Systems

Description

The EpiMax 460 Series has been developed for protecting floors exposed to the highest mechanical demands. These systems present excellent resistance to abrasion, mechanical stress and mid range chemical action. Installation is fast and placement is easy. They offer high thermal shock resistance.

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

These systems consist of selected pre-tinted aggregates bound in a high performance, self priming polyurethane formulation. They are supplied as a three component system, pre-packaged for on-site mixing.

EpiMax 463 is selected for 2-3 mm application and EpiMax 465 for 4-5 mm application.

When professionally installed, they provide a very high quality, non reflective flooring surface.



Advantages

- Fast application - minimal downtime
- Extreme mechanical performance
- Good chemical resistance
- Good thermal shock resistance
- Easy to clean and sterilise
- Non-tainting, non-dusting
- High abrasion resistance
- Low application odour

Typical applications

- Food & beverage production
- Pharmaceutical plants & warehouses
- Clean rooms
- Laboratories
- Plant rooms
- Warehouses

Typical properties

- Compressive strength: >50 MPa
- Flexural strength: 23 MPa
- Tensile strength: 15 MPa
- Bond strength: greater than concrete
- Cure time foot traffic: 24 hours
 vehicular traffic: 48 hours
 chemicals: 7 days

Estimating data

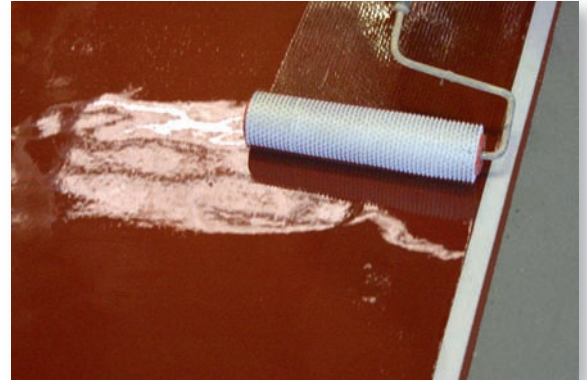
16 kg EpiMax 463 will cover 2.6 m² at 3mm

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

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 sub-floor is clean, dry and free of additives, curing agents, oils, etc. Prepare sub-floor 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.



Priming

If extreme heat resistance is required, prime the concrete sub-floor using mixed EpiMax 222.

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 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 top-coated with EpiMax 333 High Build Epoxy Coating for enhanced general chemical protection or EpiMax 333AR High Build Acid Resistant Coating System for enhanced acid resistance.

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 463 is available in 16 kg kits (includes Hardener, Compound and Aggregate).

EpiMax 465 is available in 19 kg kits (includes Hardener, Compound and Aggregate).

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