



EpiMax Pumadur

Flow Applied Polyurethane Floor Topping

Description

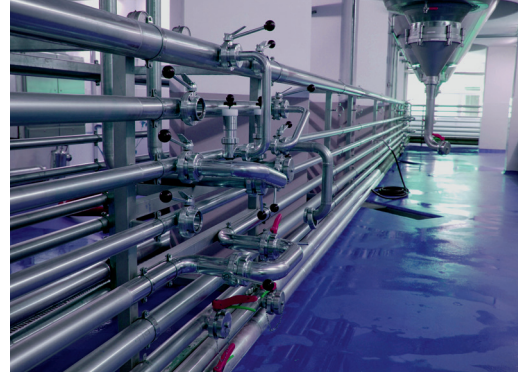
Pumadur has been developed for protecting sub-floors exposed to the highest mechanical demands. This system presents excellent resistance to abrasion, mechanical stress and mid range chemical action. Installation is fast and placement is easy. It offers high thermal shock resistance.

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

Pumadur 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 (P3 - P5), Pumadur 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.



Advantages

- Hazmat free/non flammable
- Water based - low odour and food safe
- Environmentally friendly
- 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
- Good durability

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
- Workshops

Typical properties

- Volume solids: 100%
- Compressive strength: >50 MPa
- 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

Anti-microbial function

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

Estimating data

19.8 kg Pumadur will cover 2.4 m² at 4 mm or 1.9 m² at 5 mm

Sub-floor preparation

Sub-floors should be dry and not be susceptible from rising damp.

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 2.

To achieve highest adhesion, grooves should be cut into the perimeter of the sub-floor. Typically, these are wherever a free edge of Pumadur flooring will occur, for example, around the perimeter of a bay, along drains or expansion joints, at doorways and around the feet of machinery, plinths and columns, anchorage must be provided to help distribute mechanical and thermal stresses arising from curing, heavy traffic and temperature changes.

This is achieved by cutting a groove in the concrete, with a depth and width about twice the thickness at which the Pumadur flooring will be applied, using a diamond cutting wheel.

The maximum distance between anchor grooves in either direction is 16 m. If a bay is larger than 16 m then extra anchor grooves will need to be cut.

Two anchor grooves should be cut around drains. The first as close as possible to the drain and forming part of the cut out to accommodate a joint sealant, if one is required. The second approximately 50 mm away should serve as a secondary restraint and to prevent liquids getting under the Pumadur in the event of the sealant or drain edges failing.

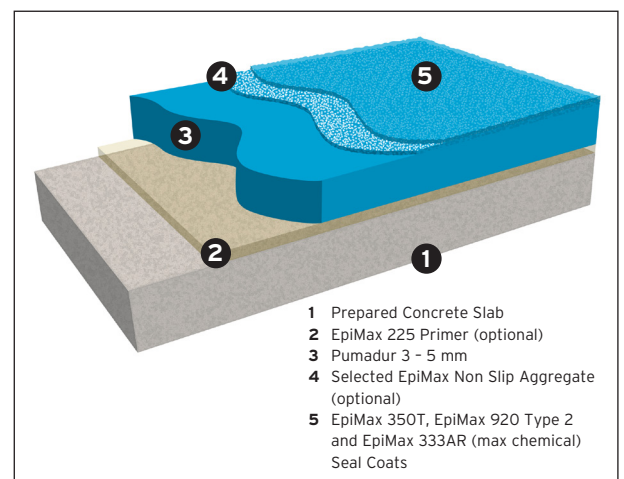
Application

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 Pumadur Base A to Pumadur Base B and mix thoroughly. Then add Pumadur Filler C to the mixed Pumadur Hardener B/Base A. 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. Use a spiked roller to produce a smooth even finish.

Pumadur can be combined with suitable grades of aluminium oxide or bauxite, to produce surfaces meeting AS 4586 P3 - P5. Broadcast the selected aggregate onto the curing Base coat. Ensure that the aggregate is broadcasted evenly. It is important to broadcast to excess otherwise bald patches will be created, which will detract from the aesthetic appearance and the slip resistance of the floor. The broadcast floor should look like just the aggregate, with no base coat resin showing.

These surfaces can then be top-coated with EpiMax 350T, EpiMax 920 Type 2 and EpiMax 333AR.



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

Pumadur is available in 19.8 kg kits. Base (Part A) 2.882 kg, Hardener (Part B) 3 kg and Filler (Part C) 13.93 kg. It is pre-packaged in correct proportions for immediate use. The Base (Part A) and Hardener (Part B) is also available bulk, supplied in IBCs.

Safety precautions

Read **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 B - Not Classified, Base A - Not Classified, Filler C - Not Classified



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