EpiMax 333WB-SR

Aviation Hangar Flooring System Skydrol Resistant

Description

EpiMax 333WB-SR Aviation Hangar Flooring System - Skydrol Resistant has been the reference standard floor protection system for commercial and military operators for more than a decade.

The original development traces itself back to a product development project that started in 2007 and was aimed at solving the industry challenge of formulating a performance maintenance hangar flooring system that would combine ZERO VOC, non-hazardous chemistry during the application phase as well as providing excellent chemical resistance to the leakage of aviation fluids encountered during aircraft maintenance and storage.

EpiMax 333WB-SR Type 2 version is available to order for specialised projects requiring high-performance static-controlled flooring for protection of electronic components, aircraft avionics, explosives, and high-speed computers from damage triggered by static electricity.

EpiMax 333WB-SR was developed and is manufactured in Australia using bio-based epoxy resin.

Key Features

- Meets GBCA Low VOC standard
- Resists MIL-PRF-87257 fluids
- Meets BCA CRF Fire standard
- Durable and cleanable (FOD control)
- Resists Skydrol fluids (500-B4, LD-4, 5 + PE-5)
- Resists Jet fuel (Jet A, Jet A-1, JP-8, JP-8+100)
- Meets AS 4586 Slip Resistance standard
- Eliminates static charge generation (EpiMax 333WB-SR Type 2)

Performance Approvals

- Australian Government, RAAF
- QANTAS
- Jetstar
- US Government, United Facilities Criteria, 5-coat system
- Virgin
- Toll Aeromedical

bio

Performance

- Eco-friendly
- Easily applied by roller
- GBCA IEQ-11 VOC < 1 gm/L
- Good stain resistance
- Water based - low odour
- Self-priming
- AS 4586 Slip Resistance P3, P4, or P5
- Excellent durability
- Hazmat free/non flammable
- Excellent abrasion resistance
- NCC C1.10 Fire hazard, Pass
- Minimal external colour change

Splash and spill resistant to

- Skydrol (500-B4, LD-4, LD-5, PE-5)
- Cleaners and detergents
- MIL-PRF-87257 Hydraulic fluid
- Battery acids
- Degreasing fluids
- Jet fuel (Jet A, Jet A-1, JP-8, JP-8+100)
- Caustic compounds
- Organic solvents
- Lubricating and de-icing fluids

Typical properties

- Volume solids: 58-60%
- Recoat: 16-24 hours at 25ºC
- Work time: 30 minutes at 25ºC
- Coverage/litre – theoretical: 8 m^2/coat
- Tack-free time: 6 hours at 25ºC
- Full cure: 7 days at 25ºC

Typical applications

- APU maintenance
- Jet turbine maintenance
- Simulator centres
- Military training facilities
- Composite repair facilities
- Military ordnance facilities
- Airframe overhaul and maintenance
- Fuel and fluid stations
- Inventory warehousing
- Military simulators
- Aircraft hangars and storage sheds
- Fork lift recharge areas
- Avionics maintenance facilities
- Airline catering facilities
- Helicopter maintenance centres
- Consumables warehousing
- Military catering facilities
- Washrooms

Estimating data

16 ltr EpiMax 333WB-SR = 42 m^2 (3 coats)

Note: Consumption rate can increase with highly profiled slab preparation and non-slip finish options.

Concrete slab 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.

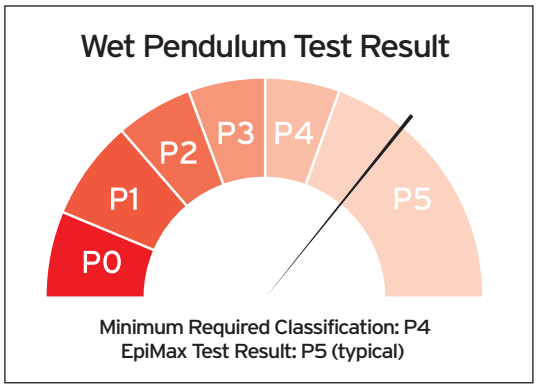
Application

The correct application process for EpiMax 333WB-SR for high level commercial and military aviation facility floor protection is a demading series of stages.

EpiMax partners with Accredited Application partners to achieve the required performance requirements (surface preparation, Skydrol resistance, adhesion, slip factor, general coating density, finish and durability).

Review the 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. Then add EpiMax 333WB-SR Part A to EpiMax 333WB-SR Part B. Mix until uniform.

Discard unused material when the work time is exceeded (30 minutes at 25°C). Note exceeding the work time/pot life, will result in a colour change. Avoid application when relative humidity is >80% and temperature is <12°C.



Slip resistance safety classification

Hangar storage and maintenance area

The classification within HB: 198 Handbook *Guide to the specification and testing of slip resistance of pedestrian surfaces*, Table 3B is not comprehensive and does not list every specific location or scenario that may be encountered, therefore some interpretation must be used to select a minimum classification if the area tested is not specifically listed in the Handbook. In this particular instance there is no specific recommendation for general aircraft hangars.

As these locations are likely to experience liquid contamination during normal usage from water being tracked in from outside and potentially oil and other engine fluids during maintenance being carried out, the most appropriate minimum pendulum classification for these areas may be considered as external ramps including sloping driveways, footpaths, etc., under 1:14 (4.1°), external sales areas (e.g. markets), external carpark areas, external colonnades, walkways, pedestrian crossings, balconies, verandas, carports, driveways, courtyards and roof decks.

This classification carries a minimum classification of P4 (45 - 54 SRV with Slider 96).

Linemarking installation

EpiMax 842 Type 2 Fast-Curing UV Stable Flooring Systems are available for hangar floor markings to complete the visual communication of aircraft movement and positioning, safety, hazards and other general restrictions.

Commissioning

Protect the installed floor from rain, dust, contamination and all operational exposure for a period of 24 hours.

Allow to fully cure for 7 days before commissioning.

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.

Liquid spills are a safety hazard. Always remove immediately, scrub clean and allow the floor to dry completely.

Packaging

EpiMax 333WB-SR is available prepackaged in correct proportions for immediate use.

Ordering Information:

EpiMax 333WB-SR 16 litre COLOUR #9033946 in nominated colour.

Floor coating specification (Typical)

Material Supplier: EpiMax Technologies

Product: EpiMax 333WB-SR

Three (3) coats to achieve manufacturer's finish and performance recommendations including the incorporation of 60 mesh white aluminium oxide to achieve a minimum slip rating of P4 when tested by way of AS 4586-2013 Slip resistance classification of new pedestrian surface materials.

Prepare the concrete substrate by diamond grinding to achieve a CSP2 surface profile.

Colour: CLOUD GREY N22

Other solutions

EpiMax offers a complete range of solutions for the aviation sector. These include Skydrol resistant jointing systems, apron and hardstand lighting sealants, battery recharge floor protection. Contact EpiMax for further information.

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: Part A – Not Classified, Part B - Not Classified

EpiMax

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