

FINPRO EP WB 50



DESCRIPTION

Finpro EP WB 50 is a water based epoxy coating for commercial and industrial applications. This versatile two-pack product provides superior performance and protection of concrete surfaces.

Finpro EP WB 50 is recommended for areas requiring enhanced protection and safety from vehicular and industrial traffic. The Finpro EP WB 50 system is an excellent alternative to existing solvent-based technology for projects that require low odour, low VOC, non-flammable epoxy coating. Available in clear and selected AS2700 colours.

USES

- Warehouses
- Storage Facilities
- Plant Rooms
- Carparks
- Distribution Centres
- Factories
- Educational facilities
- Workshops
- Retail
- Supermarkets

FEATURES AND BENEFITS

- Low odour
- Economical
- Excellent abrasion resistance
- Excellent hardwearing surface
- Superior stain resistance
- Fast installation
- Low VOC
- Environment friendly

TYPICAL PROPERTIES

Solids Content	50%
Pot life (8L kit) 25°C	1 Hour
Mix Ratio (by Volume) Resin: Hardener	1:1
Recoating window	6-12 hours at 25°C
Tack free time	12 hours
Cure Time	24hrs – light traffic - 7 days full cure
Film thickness per coat	75µm
Slip resistance:	P3 – P5 (with additive)
Set to touch	45-60 minutes at 25°C (depends on air flow)
UV Resistance	Good
Weathering resistance	Good

APPLICATION GUIDELINES

Surface Preparation

The substrate must be sound, clean and dry to ensure optimal adhesion between floor coating and substrate. Remove surface laitance, contaminants, existing coatings and curing compounds via light grit-blasting or grinding to ensure suitable surface profile (CSP 2) has been achieved.

Prior to application the surface must be free of dust and other debris. Priming is generally not required over a mechanically prepared surface. Application to very porous concrete may require an additional 3rd coat of Finpro EP WB 50.

Repair imperfections such as holes and cracks where necessary.

New concrete must be cured for 28 days prior to application.

Mixing

Using an electrical low speed (400rpm) mechanical mixer, premix Part A until homogenous. If pack A is neutral, add colour pack and mix it until homogenous.

Add the Part B (Hardener) to Part A (Base) and mechanically mix for 2 minutes, scrape down sides of vessel so no unmixed material remains and stir for further 2 minutes.

Leave to stand for 2-5 minutes before application for best results. Mix only the required amount that is needed based on the pot life of the product (dependant on climatic conditions). To extend pot life place mixed product in smaller buckets or trays.

Do not apply mixed material that is unused after 2 hours.

Up to 10% water may be added to mixed material to aid ease of application.

Sealer Application

Finpro EP WB 50 can be applied by roller, squeegee or airless spray within 1 hour of mixing.

Roller/Squeegee

This method is compatible with Finpro EP WB 50, allowing application of even coats of mixed material to the prepared surface. Use a high-quality short nap roller for roller application and back-rolling.

Airless spray

Professional applicators are recommended to apply using standard airless spray equipment such as Graco 30:1 (0.43-0.53mm tip) with air supply of 80-100psi.

Assess the application area so that a fixed volume of mixed material can be applied over a fixed area to determine the correct application rate.

For Smooth Finish

- Apply First Coat of Finpro EP WB 50 at a coverage of 6 to 7 sqm per litre.
- Apply Second Coat of Finpro EP WB 50 at a coverage of 6 to 7 sqm per litre.

For broadcast Non-Slip Finish

- Apply First Coat of Finpro EP WB 50 at a coverage of 6 to 7 sqm per litre.
- Broadcast selected Finpro AD graded aggregate while the first coat is wet and let it cure overnight. Grit aggregate size depends on the grading requirement.
- Sweep off and remove loose aggregate.
- Apply Second Coat of Finpro EP WB 50 at a coverage of 5 to 6 sqm per litre.

Aggregate size will dictate the level of slip resistance.

See table below for guidance on range of slip resistance by medium. Slip resistance according to Standards Australia handbook HB198:2014.

Classification	BPN Range	Recommended addition of aggregate to achieve slip resistance
P5	>54	Broadcast 30/60 grit aggregate to rejection to initial coat then overcoating
P4	45-54	Addition of 80# white alumina oxide at a rate of 30g/L

LIMITATIONS

To ensure a uniform colour, use components with identical batch numbers in the one application area.

NB: Care has been taken to ensure that colours are as close as possible to agreed reference samples. However, it should be noted that no guarantee can be given of exact colour matching.

Application conditions

Conditions that arise that are not considered normal an evaluation of suitability of the product for the application should be considered. They include but are not limited to:

- Surfaces being subjected to hydrostatic pressure will have a high chance of failure of bond to the substrate
- Substandard or porous concrete leading to excessive absorbency of the product
- Atmospheric conditions during curing including cold conditions (<10°C) or humid conditions (>80% humidity) will affect the initial cure of the product or lead to blushing of the surface
- Water based products requires the water in the formulation to evaporate as part of the curing process so humidity ranges while curing must be considered
- Severe or unusual exposure to chemicals outside of expected limitations of the product
- Cleaning procedures need to be assessed as spills of strong acids or incompatible cleaning agents will result in discolouration of the surface
- Exposure to sunlight may cause a superficial chalking and slight yellowing of the surface

If guidance is required, please contact a VULK representative for advice.

ESTIMATING DATA

Typical coverage rates are 6-7m² per litre (75µm DFT)

VOC COMPLIANCE

Low VOC <50g/L

CLEAN UP

Use water for cleaning of tools and equipment before the mixed compound has hardened.

PACKAGING

Finpro EP WB 50 comes in pre-packaged 8L kits. For neutral product, up to 1kg of pigment paste is to be added.

SHELF LIFE

1 year in unopened, factory sealed container. Safely stored at temperatures between 5°C-35°C.

SAFETY PRECAUTIONS

Always wear adequate personal protection during use including gloves, eye protection, overalls and appropriate mask. Apply in adequate ventilation. Refer to Material Safety Data Sheet (SDS) for further safety information.



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