

FINPRO TA 321



DESCRIPTION

Finpro TA 321 is heavy duty, 100% solids, two pack epoxy coating designed for roll-coat application. This versatile product is suitable for a wide range of industrial and commercial environments for the protection of concrete and steel from chemical attack, forklift, vehicular and commercial traffic.

Slip resistant finishes can be achieved with the addition of a suitable slip reducing medium.

USES

- Wineries
- Warehousing
- Manufacturing facilities
- Commercial kitchens and bars
- Hospitals and nursing homes
- Motor workshops
- Aircraft hangars
- Pharmaceutical plants
- Food processing
- Carparks
- Mining operations

FEATURES AND BENEFITS

- Good colour stability
- Wear resistance
- Slip resistant with addition of aggregate
- Solventless
- Odourless
- High chemical resistance
- 100% solids

TYPICAL PROPERTIES

Solids Content	100%
Pot life (8L kit) 25°C	40 minutes
Specific gravity @ 25°C	1.4 kg/L
Mix Ratio (by Volume) Resin: Hardener	3:1(v/v)
Recoating window	9-24 hours at 25°C
Cure Time @ 25°C	12-24hrs – light traffic 7 days full cure
Film thickness per coat	160-250 µm
Slip resistance	P3 to P5 dependent on additive
Colour stability	Excellent indoor

CHEMICAL RESISTANCE

Spill resistance to a range of chemicals including;

Toluene	Ammonia 20%
Sulphuric Acid 30%	Kerosene
Acetic Acid 5%	Petrol, Oil
Skydrol	Hydrochloric Acid
Sodium Hydroxide 30%	Lactic Acid 5%
Sodium Chloride	Vegetable oils

APPLICATION GUIDELINES

Surface Preparation

The substrate must be sound, clean and dry to ensure optimum adhesion between floor coating and substrate. The concrete shall be no less than 25MPa and have a surface tensile strength of 1.5MPa.

Repair imperfections such as holes and cracks where necessary. New concrete must be cured for 28 days prior to application. Remove surface laitance, contaminants, existing coatings and curing compounds via light grit-blasting or grinding to ensure suitable surface profile. The surface must be free of dust and other debris.

Priming is generally not required over sound substrates that have been prepared via mechanical grinding. Application to very porous concrete, an additional 3rd coat of Finpro TA 321 may be required, or prime with Finpro GP Primer to reduce the risk of air entrapment and surface imperfections.

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.

Application Directions

Finpro TA 321 can be applied by roller within 40 minutes of mixing:

Review 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 fast squeegee application or self-levelling projects use Finpro EP HS.

For Smooth Finish

- Apply first coat of Finpro TA 321 at a coverage of 4 to 6 sqm per litre.
- Apply second coat of Finpro EP TA 321 at a coverage of 5 to 6 sqm per litre.

For Broadcast Non-Slip Finish

- Apply first coat of Finpro TA 321 at a coverage of 4 to 6 sqm per litre.
- Broadcast grit aggregate while the first coat is wet and let it cure overnight. Grit aggregate size depends on the grading requirement.
- Clean off and remove loose aggregate.
- Apply second coat of Finpro TA 321 at a coverage of up to 3 to 4 sqm per litre.

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

Pendulum Classification	BPN Range		Recommended addition of aggregate to achieve slip resistance
AS 4586-2013			
P5	V	>54 >44	Broadcast 30/60 grit aggregate to rejection
P4	W	45-54 40-44	Addition of #60 alumina oxide at rate of 5% by volume in top coat
P3	X	35-44 35-39	Addition of #80 alumina oxide at rate of 5% by volume in top coat

IMPORTANT NOTES AND 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.

LIMITATIONS

Conditions that arise that are not considered normal and 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
- End use service considerations such as hot water cleaning (>40°C)
- Severe or unusual exposure to chemicals outside of expected limitations of the product
- Cleaning procedures need to be assessed as spills of acid 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 5-6m² per litre (160-250um DFT) per coat.

VOC COMPLIANCE

No VOC content. DFT equals WFT

CLEAN UP

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

PACKAGING

Finpro TA 321 pre-tinted kits in 8L or 20L

SHELF LIFE

12 Months. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep from freezing.

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.

DISCLAIMER / STATEMENT OF RESPONSIBILITY

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