

# SUPREME FLOORTOP SL

## epigen 2917

### TECHNICAL BULLETIN

A solvent free advanced composite system developed to be used as a self levelling seamless flooring that provides a hard wearing, hygienic, chemical resistant finish.

The surface finish may be laid as a traditional smooth, high glaze finish when installed as supplied, or be finished with the inclusion of coarse aggregate to provide a profiled safe trafficable surface where excessive moisture or other hazard may necessitate high safety requirements or non skid properties.

#### TYPICAL APPLICATIONS

Warehouse Flooring	Clean Rooms
Pharmaceutical Industries	Amenity Blocks
Food Processing Facilities	Dairy Industries
Show Rooms	Abattoirs
Chemical Bunds	Loading Docks
Laundries	Sugar Mills



#### FEATURES

- Broad spectrum chemical resistance and UV stability
- Practical application thickness from 1mm to 6mm
- Trafficable in 24 hours
- Free of all solvents - zero VOC
- Engineered for high mechanical strength
- Self levelling to a smooth attractive finish
- Cures even when applied under cold adverse conditions
- Easily transformed into a highly non slip finish

**SUPREME FLOORTOP SL** is supplied as a four part kit comprising component "A" resin, component "B" curative, pigment pack, and high purity aggregate blend. The entire kit is supplied in a pre weighed convenient size to make on site activities easier.

The Australian Standard 2700 colour standard is used as the basis colour chart for all colour selections. Product can be tinted in batch lots or on an individual kit by kit basis. Extensive work has shown that kit to kit tinting exhibits minimal variation in colour.

#### PROFILE

Ratio by weight	6.5 kg Component "A"
	4 kg Component "B"
	1 kg Pigment Pot
	14 kg High Purity Aggregate
Pot Life minutes @ 24°C	20
Mixed consistency @ 24°C	Flowable Liquid
Specific gravity when mixed	1.5
Coverage, kg/m <sup>2</sup> @ 4 mm	6

#### TYPICAL CURED PROPERTIES

Compressive strength ASTM D695, Mpa	>90
Tensile strength ASTM D638, Mpa	>15
Flexural strength ASTM D790, Mpa	>15
Hardness, Shore D	90
Thermal conductivity ASTM C177, Kcal/m.hr°C	0.42
Coefficient of thermal expansion ASTM C531 (cm/cm°C) x 10 <sup>-5</sup>	3.7
Dielectric constant ASTM D150 (150KHz)	3.0
Maximum exposure temperature, °C	150
Heat deflection temperature ASTM D648, °C	75
Cure time to light traffic @ 6mm, Hours	14
Cure time to open traffic @ 6mm, Hours	24
Ultimate cure time @ 6mm, Hours	72

This information is supplied as an indicative reference only. Caution should be used where direct comparisons are to be made.

**SURFACE PREPARATION**

Methods for substrate preparation include using chemical means such as washing & etching, high pressure water blasting, or mechanical techniques such as abrasive blasting, grinding or scarifying. Specialist advice is available from Peerless Industrial Systems to ensure the correct preparation procedure is employed for specific applications.

**SURFACE CONDITIONING**

If the substrate is porous, a thin coat of Epigen should be applied to the substrate and seeded with sand aggregate to arrest air rising through applied product. Epigen 402 is recommended for this purpose although the Epigen 2917 itself may also be used.

**APPLICATION**

Mixing of product should be carried out using slow speed mixers and completed by adding to the component "A", the colour pack followed by component "B". Once uniform in colour, the high purity aggregate blend should then be added slowly with continuous mixing. Pour the mixed product directly onto the substrate and spread using a notched trowel. The notch sizing should be carefully selected since this is proportional to the application thickness. The applied product should be allowed to settle for 5 to 10 minutes before over rolling the area with a spiked roller to release air entrainment.

**NON SLIP FINISH**

To complete the floor with a profiled safe trafficable finish, broadcast graded sand aggregate, nominally 16/30 mesh, over the entire product within 30 minutes of spike rolling the area. Ensure the product is totally blinded out by the sand. Leave the product to cure for 12 hours before carefully sweeping away all loose unbound sand. Apply a final thin coat of Epigen 2917 over the entire area to leave the floor with an even appearance and all sand thoroughly sealed.

**COVERAGE GUIDE**

Priming

Epigen 2917                    5 - 8 m<sup>2</sup>/ litre or 4 - 6 m<sup>2</sup>/ kg  
Epigen 402                    8 m<sup>2</sup>/ litre or kg

Application

Epigen 2917                    1.5 kg / mm / m<sup>2</sup>

Non Slip Finish

16/30 mesh sand            1.5 kg / mm/ m<sup>2</sup>  
Epigen 2917                    5 - 8 m<sup>2</sup>/ litre or 4 - 6 m<sup>2</sup>/ kg

**CHEMICAL RESISTANCE**

Tested at 21°C. Samples cured for 10 days at 25°C. Curing at elevated temperatures will improve chemical resistance.

- 1 = Continuous or long term immersion
- 2 = Short term immersion
- 3 = Splash and spills
- 4 = Avoid contact

Acetic Acid, 10 %	2	Acetone	2
Acetic Acid, Glacial	2	Ammonium Chloride	1
Hydrochloric Acid, 5 %	1	Beer	1
Hydrochloric Acid, 10 %	1	Dichloromethane	4
Hydrochloric Acid, conc	2	Diesel Fuel	1
Nitric Acid, 5 %	2	Isopropyl Alcohol	1
Nitric Acid, 10 %	3	Kerosene	1
Phosphoric Acid, 5 %	1	Petrol	1
Phosphoric Acid, 20 %	2	Salt Water	1
Sulfuric Acid, 5 %	2	Sewage	1
Sulfuric Acid, 20 %	3	Skydrol	1
Ammonium Hydroxide, 5 %	1	Sodium Cyanide	1
Ammonium Hydroxide, 20 %	1	Sodium Hypochlorite	1
Potassium Hydroxide, 5 %	1	Toluene	2
Potassium Hydroxide, 20 %	1	Trichloroethane	2
Sodium Hydroxide, 5 %	1	Wine	1
Sodium Hydroxide, 20 %	1	Xylene	1

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**CURE**

Variations in cure may arise due to the amount of material being applied, the thickness of material being applied, the surface temperature, and the product temperature. The cure may be increased by heating product or by leaving mixed material stand for 15 minutes before use. The cure may be decreased by cooling the product before mixing.

**EPIGEN PRODUCTS**

**MANUFACTURED BY**

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