

NON SLIP EPOXY FLOORING

epigen 2614

A solventless epoxy flooring system designed to meet the highest standards of sanitary finishes, exceptional toughness, and durability. A coating specifically designed to be used with graded aggregate to provide a non slip finish for general industry and in the food industry on concrete.

The surface finish may be laid as a two coat roll down coating incorporating the inclusion of aggregate to specific sizing and type to provide a non slip profiled finish specific to personal preference or requirements.

TYPICAL APPLICATIONS

Vehicle Workshops	Pool Surrounds
Abattoirs	Bakeries
Pharmaceutical Industries	Amenity Blocks
Kitchen Facilities	Dairy Industries
Warehouse Flooring	Loading Docks
Laundries	Chemical Bunds
Stairways	School Passageways

FEATURES

- Excellent chemical resistance
- Food industry suitable
- Simple 2 coat application
- Free of all solvents - zero VOC
- Designed for inherent toughness
- Versatility in application allows concrete patching
- Selection of aggregate enables non slip quality selection
- Strongly adhesive for optimum adhesion
- Inert finish makes cleaning practical

Epigen 2614 is supplied as a two part kit comprising component "A" resin, and component "B" curative. The entire kit is supplied in a pre weighed convenient size to make on site activities easier.

Peerless Industrial Systems can provide aggregates suitable for industry acceptable finishes based on historical knowledge or suggest alternatives to comply with special requirements. The range of colours available as standard are grey, terracotta and safety yellow. Special colours provided, tinted in batch lots.



PROFILE

Ratio by weight	5 parts Component "A"
	1 part Component "B"
Pot Life minutes @ 24°C	60
Mixed consistency @ 24°C	Flowable Liquid
Specific gravity when mixed	1.6
Kg/m ² for 2.5mm nonslip	0.9

TYPICAL CURED PROPERTIES

Compressive strength ASTM D695, Mpa	>90
Tensile strength ASTM D638, Mpa	>15
Flexural strength ASTM D790, Mpa	>15
Hardness, Shore D	88
Thermal conductivity ASTM C177, Kcal/m.hr°C	0.42
Coefficient of thermal expansion ASTM C531 (cm/cm [°] C) x 10 ⁻⁵	3.9
Dielectric constant ASTM D150 (150KHz)	3.0
Maximum exposure temperature, °C	120
Heat deflection temperature ASTM D648, °C	75
Cure time to light traffic, Hours	14
Cure time to open traffic, Hours	24
Ultimate cure time, Hours	96

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.

APPLICATION

Mixing of product should be carried out using slow speed mixers. Add to the component "A", the component "B" and mix till even.

Apply the 2614 by roller directly to the substrate ensuring it is finished off evenly, removing excess puddles or trails. The product should be applied to achieve a practical coverage of 4 m²/ kg where 16/30 mesh sand is the nominated aggregate. 6 m²/ kg should never be exceeded to maintain aggregate holding properties. The applied product should then have aggregate evenly broadcast over all areas. Suitable aggregates include quartz, silica sand, copper slag, garnet, silicon carbide and aluminium oxide. The application of aggregate should occur within 30 minutes of the first coat application. Ensure the product is totally blinded out by the aggregate to excess. Leave to cure for 8-12 hours before carefully sweeping away all loose unbound aggregate. Then apply a final coat of Epigen 2614 over the entire area at a coverage rate of 1.5 m²/ kg, based on 16/30 mesh sand aggregate, to leave the floor with an even appearance.

Should a finer grade of aggregate be used, less 2614 will be required and where a very coarse aggregate is used, significantly more product will be required.



COVERAGE GUIDE

Non Slip Finish - Final film (nominally 2.5mm)

Epigen 2614	1st coat	6 m ² / kg
30/60 mesh sand	3 kg / m ²	
Epigen 2614	2nd coat	1.5 m ² / 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 %	3	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 %	3	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

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

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

Peerless Industrial Systems Pty Ltd

ABN 14 097 615 391

79 Robinson Ave, Belmont, WA 6104

PO Box 407, Cloverdale, WA 6985

Phone: (08) 9477 3788 Fax: (08) 9477 3766

Email: service@peerlessindustrial.com

www.peerlessindustrialsystems.com

www.epigen.com.au