

LV JOINTING ADHESIVE

epigen 1614

TECHNICAL BULLETIN

A low viscosity, flexible epoxy grouting & caulking system designed for use as a concrete joint sealant in trafficable or heavy duty applications. Characterised by exceptional toughness and durability, use has extended to flexible grouting of equipment and concrete crack injection.

Epigen 1614 possesses exceptional water resistance and resistance to a broad range of chemicals including degreasers, cleaners, aviation fuels and lubricants, and a range of acid and alkali reagents.

TYPICAL APPLICATIONS

Vehicle Workshop Jointing	Swimming Pool Joints
Carparks Jointing	PVC Pipe Sealing
Sheet Plastic Adhesive	Gasketing
Concrete Crack Repair	Core Sampling
Rock Wall Consolidation	Resilient Adhesive
Water Stop	



FEATURES

- Excellent chemical resistance
- Food industry suitable
- Internally plasticized - long term stability
- Low viscosity for easy installation
- Free of all solvents - zero VOC
- Tough and durable
- Versatility in application allows concrete patching
- Suitable with aggregate addition enables void filling while still retaining flexibility
- Strongly adhesive for optimum adhesion

Epigen 1614 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 information on specific applications based on industry acceptable practices or historical results.

PROFILE

Colour	Grey
Ratio by weight	3 kg Component "A" 1 kg Component "B"
Pot Life minutes @ 24°C	30
Mixed consistency @ 24°C	Flowable Liquid
Specific gravity when mixed	1.6
Coverage 20mm X 10mm	1.6 kg / 5 lineal metres

TYPICAL CURED PROPERTIES

Compressive strength ASTM D695, Mpa	n/a
Tensile strength ASTM D638, Mpa	2
Flexural strength ASTM D790, Mpa	n/a
Elongation at fracture %	50
Elongation after max strain released %	2
Nominal joint movement %	18
Maximum exposure temperature, °C	120
Heat deflection temperature ASTM D648, °C	<60
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 with other products are to be made.

SURFACE PREPARATION

Methods for surface preparation prior to use 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 application.

APPLICATION

Mixing of product should be carried out using slow speed mixers and completed by adding to the component "A", component "B". Ensure the mix is homogenous and free from lumps.

Jointing:

In all cases, the maximum joint depth should be 50% of joint width. The base of the joint must be unrestrained and clear of any adhesion to the base or backing tape. In extreme conditions of joint movement, installation should be carried out to enable cure to take place at the maximum joint width. No edge primer is required to facilitate adhesion unless the surface is loose or friable. In cool environments, pre warm the product before use.

Adhesive Applications:

Apply a thin coat of Epigen 1614 to both surfaces before bring the two together. Do not use where a hard high strength glue line is required. Recommended where a resilient or shock resistant bond is required (eg: PVC to concrete, HDPE onto steel, Rubber onto steel). Preheat the material before use to achieve best cure rate and strength.

Crack Repairs: Non structural

In horizontal installations, open up cracks or chase using grinder before pouring directly into crack. Area of pour may require top up.

In vertical installations, pre drill holes along crack line and epoxy in grease nipple casings. Seal crack with epoxy and insert lowest nipple, inject product until flow occurs at higher casing, insert nipple there and inject product until flow occurs, and continue similar procedure until the entire crack height has been completed.

COVERAGE GUIDE

Jointing Application - nominally 20mm wide

"Final Depth" < "Joint Width"

1.6kg = 20mm X 10mm X 5 lineal metres

Backing material must release cleanly from product

Adhesive or Void Filling Application

1.6kg = 1 litre

1.6kg = 100mm X 100mm X 100mm

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

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@peerlessindustrialsystems.com

www.peerlessindustrialsystems.com

www.epigen.com.au