

# SVENIC CRACK INJECTION EP

## 2 PART EPOXY RESIN

Version 1: Date of issue 04/10

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### DESCRIPTION

Svenic Crack Injection EP is a 2 part, low viscosity, solvent free epoxy binder that can be used for resin injection or as a bonding agent for both epoxy resin systems and cement based mortars.

Svenic Crack Injection EP can be applied to both dry and damp concrete surfaces and adheres to most substrates after proper preparation.

### PRODUCT APPLICATIONS

- Injection and sealing of cracks in concrete
- Bonding of epoxy resin mortars and grouts
- Sealing and coating of concrete/mineral substrates.
- Priming of concrete floors prior to applying floor Topping Systems

### FEATURES AND BENEFITS

- Excellent adhesion
- Adheres to dry or damp surfaces
- Very low viscosity
- Trafficable
- Solvent free
- Pre-proportioned packaging
- Multi-purpose sealer & binder
- High bond strength

### PERFORMANCE DATA (Typical)

	Part A	Part B	Mixed
Supply form	Liquid	Liquid	Liquid
Colour	Clear	amber	amber
Mix Ratio(v/v)	2	1	
Density			1.1kg/L
Application Temperature			min. 5°C max.35°C

### SPECIFICATIONS

Compressive strength approx. 42 MPa

Bond strength >2.5 MPa (concrete failure)

Heat Deflection Temperature 51°C

### CHEMICAL RESISTANCE

Svenic Crack Injection EP resists most common organic and inorganic acids in diluted form, also resistant to alkalis, water, oils, grease, etc. Chemical resistance depends on the chemicals involved, their concentration, temperature and degree of exposure. Good housekeeping practices such as immediate clean up of all spillages will greatly extend the service life.

### SURFACE PREPARATION

To obtain maximum performance:

1. Concrete should be well cured, at least 28 days old and have a minimum compressive strength of 25MPa.
2. Clean surface thoroughly to remove all contaminants such as dirt, oil, grease, wax, rust and coatings.
3. Shot blast if necessary to expose firmly held substrate. Saw cutting or grinding of crack/joint may be necessary to assist in full penetration. Remove any loose laitance and roughen surface to ensure good bonding by chipping, scrubbing, grit blasting or acid etching. The crack should be blown out after cutting or other preparatory work. Allow to dry thoroughly, for maximum absorption and adhesion.

### MIXING (Not applicable with cartridge injection kits)

Thoroughly stir Part A, then add Part B. Blend both thoroughly using a slow speed mixer fitted with a suitable paddle (max. 600 rpm). Mix entire contents of each unit as supplied. Do not attempt to split units unless accurate measuring can be assured. Svenic Crack Injection EP may be injected using Svenic crack injection ports and flanges in both high and low pressure injection equipment. Fix entry ports into surface with a quick setting epoxy adhesive and putty fill the balance of open crack between ports. Injection should then proceed from one port to the next. Cracks in horizontal surfaces may be filled by simply ponding or injection.

When used as a bonding agent or sealer/coating over existing concrete, apply by brush/roller. To ensure continuous even glossy sheen, brush product out of puddles, voids or fissures. If a mortar is required for local filling of pinholes or surface imperfections, clean kiln dried sand with very fine aggregate may be added to the mix.

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## CURING

Cure time will vary depending on the ambient temperature, quantity mixed and placed. As a general rule, hardening should take place within 14 hours. Full cure will be reached in 7 days at 23°C.

## POT LIFE (Not applicable with cartridge injection kits)

Pot life will vary depending on the ambient temperature, quantity mixed and filler content (if used).  
Pot life of a 2 litre mix will be approximately 30 minutes at 25°C.

## ESTIMATING DATA

The quantity required as an injection resin will vary with the volume of the crack. As a sealer/coating or bonding primer agent, 1 litre of Svenic Crack Injection EP will cover 6-8m<sup>2</sup>.

## CLEANING

Use thinner or solvent to clean equipment and tools before the material hardens.

## SHELF LIFE

Svenic Crack Injection EP can be stored in tightly closed original containers for 24 months at moderate temperatures.

## PACKAGING

300:150 ml (450ml) cartridge kits, 10 per carton with static mixers (product code EIFS 450).  
2Lt tins (2x1lt, product code EIFS 1LA and 2LB) and 20Lt drums (2x10lt, product code EIFS 10LA and 10LB).

## PERSONNEL PRECAUTIONS

Read all safety directions and warnings on tins before use. Refer to material safety data sheet for handling procedures.

1. As with all epoxy products, wear protective overalls, goggles and gloves - prolonged contact with skin should be avoided as it could produce dermatitis, particularly with people whose skin may be sensitive to epoxy resin system.
2. Ensure adequate ventilation.
3. Do not use at temperatures of less than 5°C unless artificial means of heating can be used to assist cure. During cold weather Part A should be pre-warmed to between 20 and 30°C.

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1. Material Safety Data Sheet will be forwarded with all orders
2. The information is of a general nature and is supplied without recommendation of guarantee. It does not make claim to be free from patent infringement.
3. Properties shown are typical and do not imply specification tolerances.
4. SVENIC Australia Pty Ltd cannot accept liability for loss or damage through use.
5. Whilst these technical details are based on expert knowledge, practical experience and laboratory testing, successful applications depend upon the nature and conditions in which the products are supplied.
6. Users must, by comprehensive testing, evaluate this product in their own application.



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