

SVENIC CRACK INJECTION ULTRA

ONE PART HYDROPHOBIC POLYURETHANE

Version 1 Date of issue 04/10

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DESCRIPTION

Svenic Crack Injection ULTRA is a superior multi-purpose, polyurethane foam injection resin. This single component system is hydrophobic in nature with outstanding physical properties. The resin is designed to expand on immediate direct moisture contact pushing out the water which effectively seals the crack or void from the inside out.

Svenic ULTRA may be used with Svenic Accelerator to “adjust” the reaction profile as needed for job site conditions.

PRODUCT APPLICATIONS

- Designed to seal active seeping or mildly leaking cracks, voids or fractures in concrete structures and solid masonry substrates from 1 to 10mm wide.
- Suitable for cracks in commercial, domestic and civil applications such as manholes, box culverts, tunnels, retaining walls, seawalls.

FEATURES & BENEFITS

- Immediate foaming reaction
- Single pack
- High fluidity viscosity means easy injection
- Accelerator can increase reaction
- Flexible
- Suitable for fine to wide infiltrations
- Rapid expansion
- Non shrinking permanent seal

PHYSICAL PROPERTIES & PRODUCT SPECIFICATION

Typical Chemical Analysis	Results	Test type	
Viscosity, 25°C, cps	600 + 200	ASTM D-1638	
Specific Gravity	1.06		
Physical State	Liquid		
Colour	Light Yellow		
Typical Physical Properties	Unrestricted Rise	Test Method	
Density	48 kg/m ³	ASTM D-1622	
Tensile Strength	275 kPa	ASTM D-638	
Tear Strength	2.63 kN/m	ASTM D-638	
Elongation	300%	ASTM D-624	
Reaction with moisture			
Accelerator percentage	0%	2 ½%	5%
Cream Time	60 sec.	35 seconds	20 seconds
Expansion Time	12 minutes	3 minutes	2 minutes

LIMITATIONS

- Although flexible in cured nature product is not recommended for high movement joints
- Not recommended for application in cold water temperatures below 18°C.
- Not designed for high flow or gushing water applications. Svenic ISP should be used for high and massive leaking joints.
- The product is non trafficable and repaired cracks must be covered by a suitable trafficable sealant.
- Poor chemical resistance to some concentrated acids, ketones and solvents.

SURFACE PREPARATION

No specific surface preparation is necessary. The resin can be injected into both horizontal and vertical joint repair applications. Pre wet surface areas to be injected will assist in removal of excess cured resin.

APPLICATION INSTRUCTIONS

Svenic Ultra is formulated for sealing solid masonry and concrete cracks with widths from 1mm to 10mm and is designed for use where its expansion is confined.

As a single component system it needs to mix with water to commence the foam swelling reaction.

It is not recommended for use in water temperatures below 18°C. Low water temperatures will increase the viscosity and decrease the reactivity. Application air temperature range is best between 15°C to 30°C.

Faster reaction times may be achieved by use of our accelerated formulation. This formulation is made only against requested order on minimum volumes.

APPLICATION EQUIPMENT

Correct crack injection ports and flanges must be selected and suitable to address the nature and severity of the repair required. Contact Svenic for recommended barrel applicators, injection flange or port selections.

PACKAGING

10 Lt pails (product code PUIAR10L) and;
200 Lt drums (product code PUIAR200L)

STORAGE

Store in a covered, dry, above ground location in airtight containers. Product should not be exposed to the atmosphere until application. Product is moisture sensitive and contact should be avoided with wet or damp surfaces. In cold weather, the containers, to maintain liquid condition, should be stored in temperatures between 15°C and 30°C

SHELF LIFE

12 months if stored in recommended conditions.

CLEANING

Clean equipment with clean cloth or rags removing fresh, uncured material from application equipment. Cured resin can be removed by scraper or wire brushing. If solvents are to be used solvents should be tested before applying. Some solvents such as; Acetone, Xylol, MEK and Toluols can be very aggressive. Personal health and safety should be considered before using solvents.

PERSONAL HEALTH & SAFETY

All personal OH&S standards and precautions must be adhered to when using this product. Product MSDS risk and safety phases along with safe handling procedures must be implemented.

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- Material Safety Data Sheet will be forwarded with all orders
- 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.
- Properties shown are typical and do not imply specification tolerances.
- 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.
- Users must, by comprehensive testing, evaluate this product in their own application.
- SVENIC Australia Pty Ltd cannot accept liability for loss or damage through use.



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