

SVENIC VOID FILLER PU

2 PART INJECTION POLYURETHANE

Version 1 Date of issue 04/10

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DESCRIPTION

Svenic Void Filler PU is a 1:1 by volume, two component injection polyurethane resin. Hydrophobic in nature, the 2 part formulation reacts instantaneously without need for moisture or water presence.

The formulation will not generate extreme exothermic temperatures, contains no CFC's or HCFC's with no ozone depleting potential. It contains fire retardants. As a 2 part, it ensures a complete, through the foam cure.

PRODUCT APPLICATIONS

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

FEATURES & BENEFITS

- Instant moderate foaming reaction
- High fluidity viscosity means easy injection
- Rigid foam composition on curing
- Contains fire retardant.
- Can be used in surface water conditions.
- Non shrinking permanent seal
- Cures completely through the foam.
- Environmentally friendly

PHYSICAL PROPERTIES & PRODUCT SPECIFICATION

TEST TYPE	RESULTS	TEST METHOD
Density	48 kg/m ³	ASTM D-1622
Water Absorption (volume confined)	<1%	ASTM D-2127
Shear Strength	345 kPa	ASTM C-273
Tensile Strength	520 kPa	ASTM D-1623
Elongation	5%	ASTM D-1623
Viscosity	250 cps "A" Side	500 CPS "B" Side
Specific Gravity	1.22 "A" side	1.15 "B" side
Colour	Amber	
Shrinkage	<1%	
USDOT Shipping Data	Unregulated class 55	
Cream time	35 seconds	
Gel time	3 minutes	

LIMITATIONS

- Not designed for high flow or gushing water applications.
- The product is non trafficable and repaired voids must be covered by a suitable trafficable sealant.
- Rigid in cured nature, the product is not recommended for high movement joints
- Not recommended for applications in water temperatures below 18°C.
- Not recommended for applications in voids over 150mm wide as excessive exotherm can result in thermal degradation.
- 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 wetting dry surface areas to be injected will assist in removal of excess cured foam.

APPLICATION EQUIPMENT

Manual (300:300) or air (750:750) applicators for ratio cartridge systems are required.

Correct crack injection ports and flanges must be selected and suitable to address the nature and severity of the repair required. Contact Svenic for recommendations for suitable applicators, injection ports and flanges.

APPLICATION INSTRUCTIONS

Svenic Void Filler PU is suitable for sealing void widths from 1mm to 150mm in solid masonry and concrete. (Svenic ISP should be used where high to massive volume water leaks are being experienced or water temperatures are down to 5°C).

Being a 2 part mix product, Svenic Void Filler PU foaming reaction will remain constant regardless of any water flow volumes it will encounter.

Designed for use where its expansion is confined, the cavity (joint) must be closed to confine its expansion. It is not recommended for use in water temperatures below 18°C. Low water temperatures will increase the viscosity and decrease the reactivity.

RATIO PAK CARTRIDGES:

Cartridges should be dispensed using the correct manual or air applicator. Static mixer nozzles supplied with the cartridges are profiled to the correct ratio mix. If the full kit is not dispensed, remove and discard the static mixer and replace cartridge 'D' plugs and top nut immediately to eliminate cross contamination. A new static mixer must be used for any further applications.

Application air temperature range is best between 15°C to 30°C.

PACKAGING

300:300ml cartridge kits packed in cartons of 10 with static mixers (product code PVFIAR 600)

750:750ml cartridge kits packed in cartons of 4 with static mixers (product code PVFIAR 1500).

Bulk: 10 Lt pails (Product code VFPCIAR 10L A, 10L B) and;

200 Lt drums (Product code PVFIAR 200L A, 200L B).

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.

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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