

SVENIC A90

2 PART POLYURETHANE SPRAY COATING

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DESCRIPTION

SVENIC A90 is a two component, medium performance, solventless polyurethane elastomer. It is characterized by a solids content of 100% and possesses a good abrasion resistance.

PRODUCT APPLICATIONS

Industrial spray applications where elastomeric coatings and linings are specified on components subject to abrasion.
Automotive applications for the coating of ute trays, horse float interiors or other specific areas on any vehicle where flexible abrasion protective coatings would be required.
Coating of concrete, timber & construction foam fabrications.

Mining and manufacturing coating applications where moderate levels of abrasion and toughness are required. Examples included flotation cells, pipe fittings, pipe elbows and spiral classifiers.
Imitation rocks, special effects coatings, theme park & stage scenery displays

FEATURES & BENEFITS

Convenient 1:1 (volume) mix ratio.
100% solids – Zero V.O.C.
Fast builds for very thick applications.
Cost effective fast curing for quick turn around times.
Economical; no mixed material loss due to 'in pot' curing or over quantity requirement mixing of product
Good abrasion resistance and toughness.
Good sound damping characteristics.

Tenacious bond to most substrate when the appropriate surface preparation and recommended primers are used.
Remains flexible and is therefore very suitable to handling expansion and contraction of metals associated with climate change or equipment that is subject to movement.
Hydrolytic stability and corrosion resistance.
Various surface textures are possible by varying spray technique such as; smooth, orange peel or non slip.

PHYSICAL PROPERTIES & PRODUCT SPECIFICATION

Hardness (shore A)	90 ± 3
Tensile Strength (MPa)	16
Elongation (%)	250
Angle Tear Strength (kN/m)	60
Trouser Tear Strength	13
Specific Gravity	1.01
Din Abrasion (mm ³)	230
Colour (see Svenic for colour options)	White – Pale Yellow Pigment : Black
Mix Ratio, Part A / Part B (by volume)	1:1
Mix Ratio, Part A / Part B (by weight)	100/92
Pot Life @ 25°C (seconds)	12

	Part A	Part B
Colour	Clear, pale yellow	Amber/Brown
Viscosity @ 25°C (cps)	1800	185
Viscosity @ 40°C (cps)	100	70
Specific Gravity @ 25°C	1.10	1.02

CURE RATES AND RECOAT DETAILS

Curing rate is dependant on the ambient and surface temperatures. As the temperatures increase, the curing rate increases.

	10 - 15°C	20 - 30°C	30 - 40°C
Hard coating (hours)	20	10	6
Full cure (days)	7	6	5
Recoat – minimum (minutes)	<8	<4	<2
Recoat – maximum (hours)	5	3	2

LIMITATIONS

Requires plural component application equipment.
Not recommended for waterproofing membranes or in submersed potable or salt water applications
Not recommended for total thickness applications over 10mm.
Long term UV light exposure may result in surface crazing, chalking and colour deterioration.
Not to be used in applications where human or animal ingestion could be possible.

SURFACE PREPARATION

All surfaces must be dry, and clean of any surface contaminates and loose laitance. Steel and cast iron require abrasive grit blast to a "Near-White Metal" (SSPC-SP10) or class 2 ½ blast for more non-immersion application

PRIMING

All primers must be allowed to 'flash off' and be touch dry prior to the introduction of SVENIC A90. Coating must commence immediately primers are touch dry.

No primer is required over automotive paint provided it is lightly abraded (sanded) to assist bonding.

Steel and cast iron preparations must be primed with metal primer SVA 1147. Concrete surfaces must also be primed with this primer.

Concrete repriming may be necessary if primer cannot be covered within 1 hour.

Timber & foam surfaces generally do not require priming.

For specific details on recommended primers for other surfaces, please consult Svenic Australia Pty Ltd

APPLICATION EQUIPMENT

Use 1:1 mix ratio (by volume) in heated plural component spray equipment or through the portable Svenic CAF coating and foam spray system.

Both low and high-pressure equipment can be used if bulk application by airless spray is preferred.

APPLICATION INSTRUCTIONS

Coating thickness of approximately 0.5-1 mm per pass is recommended. Several millimeters can be achieved very quickly by allowing 50-60 seconds cooling between passes.

Light duty abrasive coatings 1 – 2 mm

Medium duty abrasive coatings 2.5 – 5 mm

Heavy-duty abrasive coatings 5 – 10mm

Corrosive protection 1 – 1.5 mm

Precondition drums at 25-30°C and apply at 50-60°C at the gun if using high-pressure equipment. Alternatively use the Svenic low-pressure CAF system.

To achieve optimum adhesion and cure characteristics, it is desirable that all substrate have a minimum 20°C surface temperature prior to, and during, application.

PACKAGING

750ml :750ml.kits 4 kits per carton with 4 Svenic spray static mixers. (product code PSCAR1500)

SVENIC static mixers are also available to accommodate specific application requirements such as; inside/outside pipe or difficult access applications requiring 90° or 180° angle coating cover.

200Lt drums of part A or B are also available on request. (product code PSCAR 200A and 200B)

STORAGE

Store in a covered, dry, above ground location as urethane components are susceptible to moisture contamination.

In cold weather, the containers, to maintain liquid condition, should be stored at 15°C - 30°C.

Shelf life is 12 months if stored in recommended conditions.

CLEANING

Clean with suitable equipment solvent for removing fresh, uncured material from application equipment or substrates. Cured adhesive can only be removed by mechanical means.

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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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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