



Era Polymers Pty. Ltd.
25-27 Green Street, Banksmeadow
Sydney, NSW 2019
AUSTRALIA
www.erapol.com.au

Eraspray AL950

NON-SOLVENTED ALIPHATIC SPRAY SYSTEM

TECHNICAL DATASHEET

Eraspray AL950 Spray Membrane is a UV light stable, non-solvented polyurethane spray elastomer based on aliphatic chemistry. It is characterized by a solids content of 100% and possesses a good abrasion resistance.

Additionally it offers:

1. Convenient 1:1 (volume) mix ratio.
2. 100% solids -Zero V.O.C.
3. Fast build for very thick requirements - reduced labour and time.
4. Fast curing for quick turnaround times - cost effective.
5. Hydrolytic stability and corrosion resistance.
6. Good abrasion resistance and toughness.
7. Bonds to any substrate when the appropriate surface preparation and recommended primers are used.
8. Remains flexible and is therefore very suitable to handling expansion and contraction of metal associated with climate change or equipment that is subject to movement.
9. Requires plural component application equipment only.
10. Designed for heavy-duty industrial applications where elastomeric coatings/linings are specified.

Product Specification

	ISOCYANATE PREPOLYMER (A)	POLYOL CURATIVE (B)
Specific Gravity at 25°C	1.04	0.99
Viscosity at 40°C (cps)	500 – 700	250
Viscosity at 60°C (cps)	300	95
Appearance	Water Clear	Hazy to Milky Colour*

*Note: Colour of the polyol will depend if a pigment addition to polyol has been requested.



This information is of 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. Era Polymers cannot accept liability for loss or damage through use. Whilst these technical details are based on expert knowledge, practical experience and laboratory testing, successful application depends upon the nature and conditions in which the products are supplied. Users must, by comprehensive testing, evaluate this product in their own application.

Processing Characteristics

- Store in a dry location as urethane components are susceptible to moisture contamination.
- In cold weather, the containers should be kept above 20°C to maintain them in liquid condition.
- Precondition drums at 25-30°C and apply at 50-60°C at the gun at a minimum but a temperature 70-80°C aids an even faster cure.
- The substrate should be at least 20°C or hotter.

Mix Ratio, Part A / Part B (by volume)	1:1
Pot Life @ 40°C (seconds – based on a 200 gram hand mix)	10 – 14

Coating thickness of approximately 0.5-1 mm per pass is recommended. Several millimeters can be achieved very quickly by allowing 90-120 seconds cooling between passes.

Light duty abrasive coatings	1 - 2 mm
Medium duty abrasive coatings	2.5 - 5 mm
Heavy-duty abrasive coatings	5 or more
Corrosive protection	1 - 1.5 mm

Surface Preparation

Steel and cast iron require abrasive grit blast to a "Near-White Metal" (SSPC-SP10) or Class 2½ blast for most non-immersion applications and prime with AD-1147 (metal primer). For immersion conditions, prime with AD-6 or 415.

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

For specific details on recommended primers for other surfaces, please consult Era Polymers.

Equipment

Use only 1:1 mix ratio (by volume) in heated plural component spray equipment. Both low and high-pressure equipment can be used.

Cure and Recoat Details

Curing rate of this product is dependant on the ambient and surface temperatures. As the temperatures increase, the curing rate decreases.

Temperature at gun	(°C)	50 - 60
Hard Coating	(mins)	10 – 15
Full Cure	(days)	6
Recoat - minimum	(mins)	<5

Physical Properties

Properties presented below are to be used as a guide and not intended for specification purposes.

		AL950	TEST METHOD
Hardness	(Shore A)	95 ± 3	AS1683.15
Tensile Strength	(MPa)	20.1	AS1683.11
Angle Tear Strength, Die C	(kN/m)	101	AS1683.12
Trouser Tear Strength	(kN/m)	43	AS1683.12
Elongation	(%)	320	AS1683.11
DIN Abrasion Resistance 10N	(mm ³)	157	AS1683.21
Cured Specific Gravity	(g/cm ³)	1.01	AS1683.4
Colour		White	