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Eraspray ESP950

NON-SOLVENTED SPRAY ELASTOMER

TECHNICAL DATASHEET

Eraspray ESP950 is a two component, spray-in-place, solvent free, and 100% solids polyurethane elastomer system and contains a fire-retardant.

Additionally it offers:

1. Convenient 1:1 (volume) mix ratio
2. 100% solids – zero – VOC
3. Fast build for thick requirements – reduce labour and time
4. Fast curing for quick turn around times – cost effective
5. Hydrolytic stability and corrosion resistance
6. Excellent abrasion resistance and toughness
7. Plural component application equipment only
8. heavy duty industrial applications where elastomeric coatings / lining are specified

This particular spray system although it has a high hardness it has a good degree of flexibility and will handle some movement of the substrate associated with climate change or equipment subject to movement.

Product Specification

	ISOCYANATE PREPOLYMER (A)	POLYOL CURATIVE (B)
Specific Gravity at 25°C	1.11	1.01
Viscosity at 25°C (cps)	920	250
Viscosity at 60°C (cps)	100 - 200	100
Appearance	Clear, pale yellow	Amber hazy liquid

Processing Characteristics

- Store in a dry location as urethane components are susceptible to moisture contamination.
- In cold weather, the containers should be kept above 15°C to maintain them in liquid condition.
- Precondition drums at 25-30°C and apply at 50-60°C at the gun.



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.

- The polyol should be thoroughly mixed by mechanical means of using a stirrer inside the pail or drum first. The polyol is a blend of different components and will need to be mixed before use.
- The substrate should be at least 20°C or hotter.
- Power agitate the Part B during application.

Isocyanate Prepolymer (A)	(pbv)	1
Polyol Curative (B)	(pbv)	1
Isocyanate Prepolymer (A)	(pbw)	100
Polyol Curative (B)	(pbw)	91
Pot Life at 40°C	(seconds)	14

Coating thickness of approximately 0.5-1 mm per pass is recommended. Several millimeters can be achieved very quickly by allowing 10-20 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

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

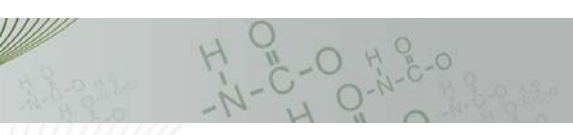
Substrates should be clean and dry. Any water on the substrate will react with the system when spray and caused a less than satisfactory finish.

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 Details

Curing rate of this product is dependant on the ambient and surface temperatures. As the temperatures increase, the curing rate decreases. The product continues to cure overnight and it is advisable not to walk on it for 24 hours.



Physical Properties

		Eraspray ESP950	TEST METHOD
Hardness	(Shore A)	95 ± 3	AS1683.15
Tensile Strength	MPa (psi)	23 (3336)	AS1683.11
100% Modulus	MPa (psi)	8.7 (1262)	AS1683.11
200% Modulus	MPa (psi)	13.5 (1958)	AS1683.11
300% Modulus	MPa (psi)	19.1 (2770)	AS1683.11
Elongation	(%)	350	AS1683.11
Angle Tear Strength, Die C	(kN/m)	64	AS1683.12
Trouser Tear Strength	(kN/m)	32.7	AS1683.12
Cured Specific Gravity	(g/cm ³)	0.96	AS1683.4
DIN Abrasion Resistance 10N	(mm ³)	98	AS1683.21
Colour		White / Pale yellow	-