

POLYUREA SPRAY ELASTOMER FOR POTABLE WATER

TECHNICAL DATASHEET

Eraspray ST PW is a two component, spray-in-place, solvent free, flexible and 100% solids polyurea elastomer system. It is formulated for spray application through plural component spray equipment.

Eraspray ST PW is a fast curing, textured surface, multipurpose material designed for commercial and industrial applications requiring high chemical resistance and abrasion resistance. This product is based on aromatic polyurea chemistry and will change colour with long term exposure to U.V.

Eraspray ST PW is certified in accordance with AS/NZS 4020 (Testing of products for use in contact with drinking water).

Application

Eraspray ST PW is ideally suited to sealing, protecting and waterproofing roofs, bunded areas, floors, tanks, pipes, concrete etc.

Eraspray ST PW can be used as a hard coat for protecting friable surfaces such as polyurethane foam and polystyrene, from outdoor exposure.

Product Specification

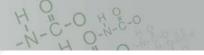
	ISOCYANATE PREPOLYMER (A)	POLYOL CURATIVE (B)
Viscosity at 40°C (cps)	180	150
Specific Gravity at 40°C	1.13	1.0
Appearance	Amber liquid	Amber liquid



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Mixing and Curing Conditions

Isocyanate Prepolymer (A	A) (by volume)	100
Polyol Curative (B)	(by volume)	100
Mix time	(seconds)	3
Gel time	(seconds)	<5

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

Physical Properties

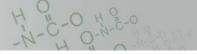
	/// /////////////////////////////////	Eraspray ST PW	TEST METHOD
Hardness	(Shore A)	95	AS1683.15
Hardness	(Shore D)	45 - 50	AS1683.15
Tensile Strength	(MPa)	17.0	AS1683.11
Angle Tear Strength, Die C	(kN/m)	75	AS1683.12
Trouser Tear Strength	(kN/m)	30.0	AS1683.12
Elongation	(%)	175	AS1683.11
DIN Abrasion Resistance 10N	(mm³)	165	AS1683.21
Cured Specific Gravity	(g/cm³)	1.033	AS1683.4



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Processing Procedure

- Eraspray ST PW components should be stored tightly closed at temperatures between 15°C and 25°C.
- 2. **Eraspray ST PW** must be sprayed through high pressure plural component dispensing equipment.
- 3. The component drums should be pre-heated to at least 25°C prior to mixing and dispensing.
- 4. **Eraspray ST PW** polyol should be mixed with a rotary power mixer before use.

Plural Component Processing Conditions:

Equipment pressure	2000 psi minimum
Component A (iso)	
Hose Temperature	60°C
System Temperature	60°C+
Component B (Polyol)	1///
Hose Temperature	60°C
System Temperature	60°C+

Surface Preparation

Substrates should be clean and dry. Avoid contact with water or moisture as it may react with the components and affect the finished results. A dryer should be installed in the air line to eliminate moisture.

Adhesion

Adhesion of Eraspray elastomers to various substrates is at best marginal if a primer is not used. Please consult Era Polymers for specific recommendations to improve adhesion.



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Chemical Resistance

MATERIAL	RESISTANCE	
Acetic Acid (10%)	Excellent	
Acetic Acid (concentrate)	Poor	
Acetone	Poor	
Alcohol	Excellent	
Ammonium Hydroxide	Poor	
Automotive Gasoline	Good	
Automotive Oil	Excellent	
Aviation J P Fuel	Excellent	
Benzene	Good	
Boric Acid	Excellent	
Brine Solution	Excellent	
Citric Acid (10%)	Excellent	
Diesel Fuel	Good	
Formic Acid (5%)	Excellent	
Formic Acid (10%)	Poor	
Hydrochloric Acid (5%)	Excellent	
Hydrochloric Acid (45%)	Fair	
Hydrogen Peroxide (10%)	Excellent	
Kerosene	Excellent	
Lactic Acid (10%)	Fair	
Linseed Fatty Acid	Excellent	
Nitric Acid (10%)	Excellent	
Phosphoric Acid (50%)	Excellent	
Potash Lye (20%)	Excellent	



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Saline Solution (30%) Excellent

Handling Precautions

Consult the product's material safety data sheet (MSDS) for specific hazard and handling information before use. All persons using the spray components and equipment should be fully trained in their use.

Eraspray ST PW should be used in well-ventilated area if possible. Avoid breathing in vapours and protect skin and eyes from contact. Provide additional ventilation and/or breathing apparatus if used in confined spaces, as required to maintain safe working conditions.

In case of skin contact, immediately remove excess, wash with soap and water. For eye contact, immediately flush with water for at least 15 minutes. Call a physician.

If nose, throat or lungs become irritated from breathing in vapours, remove exposed person to fresh air. Call a physician.

Wear appropriate personal protective equipment when servicing equipment.



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