

Elastochem® PU9511 | Low-Viscosity Polyurea Coating

Product Description

Elastochem® PU9511 is a low-viscosity two component polyurea coating. This high performance coating has excellent thermal properties and cures to an extremely tough, chemical resistant coating.

Recommended Uses

This product can be used for coating concrete for containment, metals, foams and geotextiles for various applications.

Storage

12 Months shelf life in unopened containers when stored in a dry location between 10-32°C (50-90°F). Keep drums tightly sealed when not in use.

Packaging

Available in Pails and Drums

Processing Parameters

PU9511 should be processed through a plural component system at a 1:1 ratio by volume. For hand mixing procedures, contact an Elastochem specialist for more details.

Attribute	Isocyanate	Resin
Mixing Ratio (volume)	100	100
Mixing Ratio (weight)	108	91
Pressure	3500 psi	
Min. Material Temperature	140°F (60°C)	
Min. Air & Surface Temperature	41°F (5°C) and rising	

Typical Processing Data

Attribute	Hand Mix
Iso Temperature (oF) "A"	140-180
Resin Temperature (oF) "B"	140-180
Viscosity Part "A" (cps)	800 +/- 500
Viscosity Part "B" (cps)	550 +/- 300
Gel Time (seconds)	8-12
Tack Free Time (seconds)	<30
Recoat Time	0-12 hours
Ultimate Cure:	5 Days

Typical Properties*

Attribute	Test	Results
Hardness, Shore	ASTM D-2240	95A/50D
Tensile Strength (psi)	ASTM D-412	2450
Elongation, Ultimate (%)	ASTM D-412	295
Tear Strength, Die C (pli)	ASTM D-624	450
100% Modulus (psi)	ASTM D-412	1230
Moisture Vapour Transmission (Perm Value)	ASTM E96-80	<0.10
Elcometer Adhesion	ASTM D-4541	>1200
Steel (psi)		
Concrete (psi) - Cohesive Failure of Concrete		

* Note: This data is based on laboratory tests, application conditions and methods may affect these values

Application

Substrate must be sound, clean and free of dirt, debris and other contaminants.

Priming is required on all surfaces prior to application of coating. Elastochem PU9511 is used on most substrates.

Thoroughly mix the B component of PU9511, prior to use. Extreme caution should be exercised to prevent cross contamination of the individual components and with the mixing equipment.

Coverage

Depending on surface roughness, 36-54 sqft/ gallon (0.88-1.31 sqm/ liter) at a dry thickness of 40 mils

Health and Safety Information

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling this product. Before working with this product, you must read and become familiar with the available information on its risks, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., safety data sheets and product labels. For further information contact your Elastochem Representative.

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