

# CPS 550

## Protective Coating System

### Description

CPS 550 is a 100% polyurea spray elastomer with exceptional physical properties. It's fast reactivity and one-to-one ratio makes CPS 550 an excellent choice for high performance applications.

### Proposed Uses

CPS 550 is designed for use in harsh environments where high temperature, chemical, and/or abrasion resistance is needed. It exhibits excellent adhesion to most materials and is suitable as a protective-abrasive-impact liner for cementitious, wood, and/or metal surfaces.

### Product Application Parameters

Property	Test Method	"A"	"B"
Color	N/A	Off-white	Amber/Black
Specific Gravity	ASTM D-1638	1.18	1.02
Viscosity	By Volume	50	50
Gel Time (string)	String Gel	5-6 seconds	
Gel Time	Dry to Touch/Tack Free	10 seconds	
Pounds per Gallon	From Spec. Gravity	9.83	8.50

### Typical Physical Properties

	Test Method	Result
Density (PCF)	ASTM D-1622	65
Shore A Hardness	ASTM D-2240	90-95
Shore D Hardness	ASTM D-2240	60
Tensile Strength	ASTM D-2370	2,500 psi minimum
Elongation	ASTM D-2370	250% average
Tear Strength	ASTM D-1004	400 pli minimum
Taber Abrasion	H-18 Wheel, 1,000 Cycles	0.013% weight loss

### Storage And Use

Filled and pigmented resins will separate upon storage. Premix the B-component prior to use each day. Urea resins are sensitive to moisture and must be kept dry at all times. Blanket open drums with nitrogen when in use. Keep unused materials tightly sealed in a dry environment. Store drums between 70° F and 90° F. CPS 550 components are temperature sensitive and will freeze. Should the components freeze, they can be heated to 100° F and remixed prior to use. Storage of the A-component below 55° F will lead to reduced product performance.

**Warning:** Do not reseal isocyanate drums if exposed to moisture as pressure may develop and rupture drum.

Refer to the SDS and labels for additional information.

### Chemical Resistance 7-Day Spot-Testing

Fluid	Exposure Temp	Weight %	Durometer "D" %	Secondary Containment
CaBr	150° F	-1.57%	1.67%	Recommended
CaBr	77° F	-0.62%	0.00%	Recommended
CaCl	150° F	-1.88%	-3.33%	Recommended
CaCl	77° F	-0.76%	0.00%	Recommended
Diesel	77° F	6.78%	-3.33%	Conditional
Diesel	150° F	17.37%	-13.33%	Conditional
D.I. H2O	150° F	0.45%	-25.00%	Conditional
D.I. H2O	77° F	1.73%	-13.33%	Recommended
Gasoline	77° F	67.48%	-61.67%	Not Recommended
Hydraulic Oil	77° F	0.28%	-3.33%	Recommended
Hydraulic Oil	150° F	1.09%	8.33%	Recommended
H3P04 1.0%	77° F	1.68%	-5.00%	Recommended
H3P04 1.0%	150° F	-1.44%	-10.00%	Recommended
H3P04 10.0%	77° F	1.53%	-6.67%	Recommended
H3P04 10.0%	150° F	24.76%	-50.00%	Not Recommended
HCl 37%	77° F	133%	75%	Not Recommended
HCl 10%	77° F	1.71%	5%	Recommended
Citric Acid 10%	77° F	2.37%	3.3%	Recommended
Kerosene	77° F	18.72%	13.33%	Conditional
Jet Fuel A	77° F	16.5%	18.3%	Conditional
Av Gas 100 Oct	77° F	25.2%	23.3%	Not Recommended
Ethylene Glycol	77° F	2.65%	11.67%	Recommended
Isopropanol	77° F	40.14%	-43.33%	Not Recommended

Use of this product as a secondary containment barrier should be cross verified by customer through in situ testing. Test data was generated by immersing free films in liquids for 1 month.

\* Conditional recommendations require cleanup of spills within 24 hours.

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