

CPS 6190-100A

Protective Coating System

Description

CPS 6190-100A is an all-purpose, 100% solids, spray applied elastomeric protective coating. CPS 6190-100A offers a highly versatile balance of physical and mechanical properties including flexibility, impact strength, and abrasion resistance. CPS 6190-100A is a urethane hybrid system that contains zero VOCs and exhibits excellent adhesion to wood, metal, concrete, and fiberglass substrates.

Typical Physical Properties

Properties	A-Side	B-Side
Brookfield Visc. @78° F, 20 RPM	500-800 cps	700-900 cps
Specific Gravity	9.6	8.55
Color	Clear Yellow	Black
Processing Data		
Mix Ratio (Parts by Vol.)	1:1	
String-Gel Time	5 seconds	
Dry-To-Touch Time	8 seconds	
Cured Properties		
Test Method	Result	
Color	N/A	Black
Durometer	ASTM D2240	58 Shore D
Tensile Strength	ASTM D412	1,600 psi
Elongation	ASTM D5034	180%
Die-C Tear Strength	ASTM D624	300 pli
Dolly Adhesion	ASTM D4541	>1,500 psi
Taber Abrasion Resistance	ASTM D4060	49 mg @ 1,000 cycles
Impact Resistance	ASTM D2794	108-in-lbf @ 75 mils

Application Requirements

Spray Equipment

Spray equipment must be designed to produce a minimum of 2,500-psi with an output of 1.5 gallons per minute. The heating component of the equipment must be able to maintain a temperature at the gun of 150° F. The hose on the equipment must be heated and be rated a minimum of 3,000-psi burst pressure. The spray gun must also be rated at the pressures and throughputs required.

Substrate Parameters

The substrate must be dry! A minimum ambient temperature of 5° F above the dew point is mandatory. The ambient relative humidity should not be above 85%. Product working temperature range is -40° F - 280° F. Pin-holing may occur if the above parameters are not strictly followed; it is up to the applicator to check initial climatic conditions. It is recommended that a small area be sprayed and checked for proper application.

Coverage

The material theoretically will cover 1,604 square feet/100-gal drum set at 100 mil dry film thickness. Coverage of the substrate should include a waste factor based on conditions at the site and type of substrate to which the material is being applied.

Storage

Liquid materials should be stored at temperatures between 55° F and 95° F in sealed containers. The A-side component should always be blanketed with nitrogen gas. Material shelf-life is 6 months. Consult product SDS for proper safety and handling procedures of components.



Chemical Resistance Summary

	Rating
HCl, 10%	A+
HCl, 27% @ 120° F	NR
H2SO4, 20%	A+
H2SO4, 60%	NR
H3PO4, 10%	B
NaOCl, 5%	C
NaOCl, 12%	C
NaOH, 50%	A+
Castor Oil	A+
NH4OH, 10%	A+
Diesel Fuel	A+
Gasoline	NR
H2O @ 70° C	A+
H2O Room Temp.	A+
Motor Oil	A+
Ethylene Glycol	A+
Mineral Spirits	A+
Paint Thinner	NR
Sea Salt, 25%	A+
Isopropyl Alcohol	NR
Xylene	NR
De-Natured Alcohol	NR
Kerosene	B

A+	Suitable for continuous immersion
A	Suitable for continuous immersion or exposure for up to 3 months
B	Suitable for temporary immersion or exposure
C	Suitable for temporary exposure or incidental contact
NR	Not Recommended
NT	Not Tested

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