

CPS 51

Protective Coating System

Description

CPS 51 is an all-purpose, 100% solids, spray applied elastomeric protective coating. CPS 51 offers a cost-effective balance of physical and mechanical properties as well as sprayability. CPS 51 is a pure urethane system that contains zero VOCs and exhibits excellent adhesion to wood, metal, and concrete substrates.

Typical Physical Properties

Properties	A-Side	B-Side
Brookfield Visc. @78° F, 20 RPM	800 cps	800 cps
Weight/Gallon	9.54 Lbs.	8.50 Lbs.
Color	Yellow	Multiple
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	Multiple
Durometer	ASTM D2240	55 Shore D
Tensile Strength	ASTM D412	2,000 psi
Elongation	ASTM D5034	200%
Die-C Tear Strength	ASTM D624	300 pli
Dolly Adhesion	ASTM D4541	1,600 psi
Taber Abrasion Resistance	ASTM D4060	-0.30% @ 1,000 cycles
Moisture Vapor Transmission, Perms	ASTM E96 (Procedure B)	1.67 @ 50 MILS

Chemical Resistance 7-Day Spot-Testing

	Durometer Change	Appearance Change	Adhesion Change
Gasoline	A	A	B
Diesel Fuel #2	A	B	A
Motor Oil, Regular	A	A	A
Motor Oil, Full Synthetic	B	C	B
Motor Oil, Heavy/'Diesel'	A	A	A
Antifreeze 50:50, Water	A	B	A
Lacquer Thinner	B	B	B

Chemical Resistance Ratings

A	B	C	D
No Loss	Minimal Loss	Moderate Loss	Severe Loss

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; proper substrate prep is critical to application success. 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 to 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 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. Zero VOCs as packaged for A-side and B-side components. Material shelf-life is 6 months. Consult product SDS for proper safety and handling procedures of components.

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