

URETHANES

SP-24

TECHNICAL DATA SHEET

COMPONENTS

2

SOLIDS

100%

VOC

<50 g/l

MIX RATIO

3.95 gal A, 1.05 gal B

DESCRIPTION

SP-24 is a flexible aliphatic urethane designed to provide a semi-flexible wear surface as part of a traffic coating system or waterproofing floor system. It is easy to install, has little odor and provides a UV stable, tough, abrasion and chemical resistant topcoat.

RECOMMENDED USES

SP-24 is primarily used as an intermediate and topcoat in parking deck and waterproofing applications. It can also be used as a binder for floor applications that require more resiliency than epoxy floors typically can provide.

LIMITATIONS

SP-24 is designed to be applied between 15-25 mils as an intermediate or topcoat. Ideal application temperatures to be between 60-90°F. Cooler temperatures will increase cure times. Warmer temperatures will decrease working and cure times. Verify that substrate temperature is above 5 degrees of dewpoint during application and cure of material to avoid a potential amine blush.

SURFACE PREPARATION

The preparation method for each project is determined by a full understanding of the substrate to be coated, the chemistry of the coating system being used, the coating system thickness, and numerous other factors. The coating installer should fully read and understand ICRI Guideline NO. 310.2R-2013 and OSHA 29 CFR 1926.1153 before starting preparatory work. The aim, of preparing a substrate for coating applications, is to roughen the surface, remove weak layers, contaminants, dirt, debris and present a solid, clean, dry substrate for the primer. If unsure as to the level of preparation needed contact Polymer Nation at Lab@polymerNation.com.

MIXING

Do not split kits. Combine all of part A and B into a single container, large enough to except the entire kit. Mix using a 350 RPM mixer using an appropriate mixing blade for 1.5 - 2.5 minutes making sure to not introduce excessive air into the material.

APPLICATION

Pour the entire content from the container onto the floor and follow normal squeegee and back roll or cut and roller techniques. Recoat within 24 hours. Clean tools with a solvent similar to Xylene or Acetone.

COMPONENTS



Part A



Part B

GENERAL PRODUCT INFORMATION

Chemistry	Urethanes
Color / Finish	Light Gray, Dark Gray, Tan, Black
Number of Components	2
Solids by Volume	100%
VOC (Mixed)	<50 g/l
Mix Ratio	3.95 gal A, 1.05 gal B
Mixed Viscosity	1800 cP
Gel / Working Time	15-20 minutes
Application Temperature	60-90°F
Odor	Very Subtle

Part A - 3.95 gal, Part B - 1.05 gal

Do not split kits.

25°C/77°F. Warmer temperatures will reduce viscosity and lower temperatures will increase viscosity

PHYSICAL PROPERTIES

Hardness	D25 @ 24 hours / D45 @ 7 days	Shore D
Tensile Strength	1,500 psi	ASTM C307
Compressive Strength	N/A	ASTM C579
Flexural Strength	Not tested	ASTM C580
Abrasion – Taber CS-17	0.050g Loss (when higher abrasion resistance is required the addition of PC 1336 to the coating should be included)	ASTM D4060
Impact Resistance	>160 inch pounds	ASTM D2794
Adhesion to Concrete	>450 Substrate failure	ASTM D7234
Gloss @ 60°	75-80	
Color Scale	0.5-1.0	ASTM D1500
Accelerated Weathering	Non-yellowing	ASTM G154
Moisture Absorption	<.2 weight increase	ASTM C413
Coefficient of Thermal Lineal Expansion	test not performed	ASTM C531
Water Vapor Transmission	See ASTM D3010	ASTM D1653
Independent Certificate – Third-Party Testing	N/A	ASTM D3010
Adhesion to Steel	N/A	ASTM D4541
Hiding Power	2-5/150	ASTM D5150
Flammability When Adhered to Concrete	Self-Extinguishing	ASTM D635
Coefficient of Friction – Dry	0.72	NFSI B101.0
Coefficient of Friction – Wet	0.67	NFSI B101.1

Applying material close to dew point will decrease gloss and may result in an amine blush

CURE SCHEDULE

Dry to Touch	2-4 hours
Through Dry	4-6 hours
Dry to Light Use	16-24 hours
Full Cure	7 days

COVERAGE & PACKAGING

Coverage Rate	64 – 110 sq.ft./gal.
Application Thickness	15-25 mils
Recoat Window	Recoat within 24 hours.
Packaging	5 Gallon kits

STORAGE, HANDLING & SAFETY

Store at 60-80 degrees F. Store material between 60-80 degrees F in a protected dry location. Refer to the current Safety Data Sheet (SDS) for this product before handling, mixing, or applying. Use appropriate personal protective equipment and ensure adequate ventilation during application and cure. Dispose of material, containers, solvents, etc., per Federal, State and local guidelines, rules and laws.

TEST DATA

Test data has been gathered from testing conducted by independent, internal and third party testing. The best way to compare coating performance is by head-to-head independent testing as this removes the numerous variables found between testing standards, equipment and testing agencies.

TYPICAL VALUES

The information here is general information to help our customers determine whether our products suit their specific applications. Our products are intended for sale to commercial and industrial customers. We require that customers inspect and test our products before use to satisfy themselves as to the content and suitability for the applications they intend to use our products. Nothing herein shall constitute any warranty expressed or implied, including any warranty of merchantability or fitness for a particular purpose, nor is any protection from any law or patent to be inferred. The exclusive remedy for all proven claims is the replacement of our materials, and we shall not be liable for incidental or consequential damages. Polymer Nation Chemical Company LLC, 405 Oakwood Ave. Waukegan, IL 60085. All rights reserved.