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MISCELLANEOUS

SP-20 SL

TECHNICAL DATA SHEET

COMPONENTS	SOLIDS	VOC	MIX RATIO
3	100%	<50 g/l	4.30 gal A, 0.70 gal B, 15 lbs EPDM rubber granules (PN 1620 S)

DESCRIPTION

SP-20 SL is a flexible aromatic urethane slurry that has extreme tensile strength with an A shore hardness of 75. It is easy to install, has low odor and has tensile elongation properties of over 1000%. It creates a soft walking surface as a component in Polymer Nation floor systems.

RECOMMENDED USES

SP-20 SL is primarily used as a basecoat for soft surface applications. It can also be bulked up using fumed silica to make a flexible patching paste.

LIMITATIONS

Apply SP-20 SL slurry with either a 1/2" or 3/8" V-notch Kraft tool. It is not intended as a finish coat as it will amber. 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 potential condensation.

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 part A and B into a single container, large enough to accept the entire kit (1 mix equals 6 gallons when Part C is added). Premix liquids at 350 RPM for 1-2 minutes using an appropriate mixing blade or mixing machine. Once Part A & B have been combined and mixed, add 15 lbs. of PN 1620 S rubber granules and mix accordingly.

APPLICATION

*SP-20 SL should be applied to a primed surface seeded lightly with silica broadcast sand.
*One mix of SP-20 SL will cover 85-90 sq. ft. when spread with a 1/2" V-notch Kraft tool.
*One mix of SP-20 SL will cover 120-125 sq. ft. when spread with a 3/8" V-notch Kraft tool.
*Each square foot will require a min of .25 lb. of PN 1620 S broadcast EPDM rubber granules if a broadcast to rejection is desired.

Pour material onto floor and spread to desired thickness using a screed rake and back roll techniques. If a broadcast has been selected, begin broadcasting evenly across the floor, following the same order in which the coating was installed. Whenever possible, work the shorter distance not the longer as this will help keep a fresh edge and make for easier blending. Recoat within 24 hours. Clean tools with a solvent similar to Xylene or Acetone.

COMPONENTS

Part A

Part B

Part C

GENERAL PRODUCT INFORMATION

Chemistry	Miscellaneous
Color / Finish	Gray
Number of Components	3
Solids by Volume	100%
VOC (Mixed)	<50 g/l
Mix Ratio	4.30 gal A, 0.70 gal B, 15 lbs EPDM rubber granules (PN 1620 S)
Mixed Viscosity	2000 cP
Gel / Working Time	15-20 minutes
Application Temperature	60-90°F

Part A - 4.30 gal, Part B - 0.70 gal, Part C - 15 lbs. EPDM rubber granules (PN 1620 S)

By volume. Do not split kits.

25°C/77°F (A&B)

PHYSICAL PROPERTIES

The data below was gathered at temperatures of 72-75°F and 30-50% RH

Hardness	40 @ 24 hours / 75@ 7 days	Shore A
Tensile Strength	2,870 psi	ASTM C307
Compressive Strength	13,000 psi	ASTM C579
Flexural Strength	5,550 psi	ASTM C580
Abrasion — Taber CS-17	0.043g 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	
Accelerated Weathering	N/A guidelines, rules and laws.	ASTM G154
Moisture Absorption	<.2 weight increase	ASTM C413
Coefficient of Thermal Lineal Expansion	15-17 x 10-6 27-30 x 10-6	ASTM C531
Water Vapor Transmission	See ASTM D3010	ASTM D1653
Independent Certificate — Third-Party Testing	N/A	ASTM D3010
Adhesion	5A	ASTM D3359
Adhesion to Steel	>1,000 psi	ASTM D4541
Hiding Power	2-5/200	ASTM D5150
Flammability When Adhered to Concrete	Self-Extinguishing	ASTM D635
Coefficient of Friction — Dry	N/A	NFSI B101.0
Coefficient of Friction — Wet	N/A	NFSI B101.1

ASTM D4060 — Abrasion Resistance CS17 1000 g 1000cycles in g Loss

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	12-16 hours
Full Cure	7 days

COVERAGE & PACKAGING

Coverage Rate	One mix covers 85-90 sq. ft. when spread with a 1/2" V-notch Kraft tool; 120-125 sq. ft. when spread with a 3/8" V-notch Kraft tool
Application Thickness	See Application section
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.