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PATCHING, JOINT, COVE

SP-16

TECHNICAL DATA SHEET

COMPONENTS	SOLIDS	VOC	MIX RATIO
2	50%	<100 g/l	1:1

DESCRIPTION

SP-16 combines a fast setting polyaspartic resin with our aromatic hardener blend to create a rapid pour and patch system. By incorporating a variety of fillers and aggregates the user can achieve a patching material that is ready for grinding in 30 minutes.

RECOMMENDED USES

SP-16 is most often used to patch concrete holes, cracks, divots and non-moving joints that will be top coated with a pigmented, UV stable finish coat.

LIMITATIONS

SP-16 is not intended as a finish coat as it will amber. Ideal application temperatures to be between 40-100°F. Cooler temperatures will increase cure times. Warmer temperatures will decrease working and cure times.

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

This material is extremely fast reacting. Only mix what can be poured out in 3-4 minutes from initial mixing. A starting point mixture may consist of 2 FL. OZ. A, 2 FL. OZ. B and 245 grams of aggregate (about 5 FL. OZ.). Aggregate size and the fluidity of the mixed material is based upon user preference and application parameters. Combine 1 part A and 1 part B into a single container, large enough to accept the entire kit. Mix liquids at 200 RPM for 30 seconds using an appropriate mixing blade. Immediately add the aggregate into the mixed resin and agitate for 1 minute.

APPLICATION

Immediately pour the entire mixed content from the container into the area to be filled. Patch should be ground prior to the application of additional coatings. Clean tools with a solvent similar to Xylene or Acetone.

COMPONENTS

Part A

Part B

GENERAL PRODUCT INFORMATION

Chemistry	Patching, Joint, Cove
Color / Finish	This material is available in clear.
Number of Components	2
Solids by Volume	50%
VOC (Mixed)	<100 g/l
Mix Ratio	1:1
Mixed Viscosity	40 cP
Gel / Working Time	3-4 minutes
Gel Time	4 minutes
Application Temperature	40-100°F
Odor	Solvent

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

Only mix what can be poured out in 3-4 minutes from initial mixing.

Warmer temperatures will decrease gel time and lower temperatures will increase gel time

PHYSICAL PROPERTIES

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

Hardness	D65 @ 24 hours / D81 @ 7 days	Shore D
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
Color Scale	0.5-1.0	ASTM D1500
Accelerated Weathering	yellowing	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

Clear to slightly amber before filler is introduced

CURE SCHEDULE

Dry to Touch	10 minutes
Through Dry	30 minutes
Dry to Walk	30 min.
Dry to Light Use	30 minutes
Full Cure	2 days

COVERAGE & PACKAGING

Packaging	2 Gallon kits
Number of Mixes per Kit	Variable by Mix Size

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 guideline, 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.