

MISCELLANEOUS

F-41 SLQ

TECHNICAL DATA SHEET

COMPONENTS

3

SOLIDS

100%

VOC

<50 g/l

MIX RATIO

2:1

DESCRIPTION

F-41 SLQ consists of our clear, UV resistant epoxy and proprietary ultra-fine color quartz blends to create a 1/8" decorative floor finish. This mixture allows the installer to blend 8 custom colors to create a unique floor finish. When PN 1321 Glint is added to the mix, the finish comes alive with light reflectivity. The cured material has high compressive strength (three times that of concrete), great impact resistance and can be finish-coated with various epoxy and polyaspartic topcoats.

RECOMMENDED USES

F-41 SLQ is primarily used to create an inexpensive, decorative and durable floor finish. With the appropriate conditions and a skilled installer, it can be installed in 2 days after preparation.

LIMITATIONS

Each mix of F-41 SLQ will cover 80 sq. ft. at 1/8" theoretical coverage. A waste factor of 10% should be contemplated. 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

A mixture consists of 2 gal A, 1 gal B and 50 LB. of C (PN 1321 F). Combine part A and B into a single container, large enough to accept the entire kit (1 mix equals 6.5 gallons when Part C is added). Premix liquids at 350 RPM for 1 minutes. Pour Part C (PN 1321 F) into the mixed resin and continue mixing until a homogenous slurry is achieved (2-3 minutes usually), making sure not to introduce excessive air into the solution.

APPLICATION

Pour material on to floor and spread using a screed rake with #2 Cams or a 1/4" notched metal tool. Once material has leveled, back roll with a spiked roller to aid in the release of trapped air. Whenever possible, work the shorter distance not the longer as this will help keep a fresh edge and make for easier blending. Temperature should be descending, not ascending during application and cure of slurry. This is critical whenever a broadcast will not be cast into the wet slurry. Concrete can be primed with P-03 prior to this application. Recoat should be within 24 hours. Clean tools with a solvent similar to Xylene or Acetone.

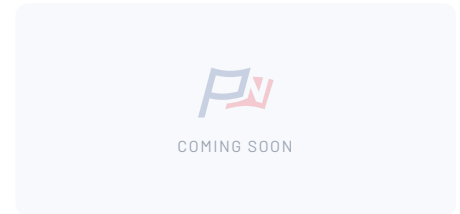
COMPONENTS



Part A



Part B



Part C

GENERAL PRODUCT INFORMATION

Chemistry	Miscellaneous
Color / Finish	System color is generated by the combination of aggregate blends
Number of Components	3
Solids by Volume	100%
VOC (Mixed)	<50 g/l
Mix Ratio	2:1
Mixed Viscosity	600-700 cP
Gel / Working Time	40-50 minutes
Application Temperature	60-90°F

Mixed

By volume

25°C/77°F

PHYSICAL PROPERTIES

Hardness	D65 @ 24 hours / D78 @ 7 days	Shore D
Tensile Strength	2,870 psi	ASTM C307
Compressive Strength	15,200 psi	ASTM C579
Flexural Strength	5,000 psi	ASTM C580
Abrasion – Taber CS-17	0.083g 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°	90+	
Color Scale	0.5-1.0	ASTM D1500
Accelerated Weathering	Slight yellowing	ASTM G154
Moisture Absorption	<.2 weight increase	ASTM C413
Coefficient of Thermal Lineal Expansion	24.5 x 10 ⁻⁶ in/in/°F	ASTM C531
Water Vapor Transmission	See ASTM D3010	ASTM D1653
Independent Certificate – Third-Party Testing	N/A	ASTM D3010
Adhesion	N/A	ASTM D3359
Adhesion to Steel	N/A	ASTM D4541
Hiding Power	N/A	ASTM D5150
Flammability When Adhered to Concrete	Self-Extinguishing	ASTM D635
Coefficient of Friction – Dry	0.75	NFSI B101.0
Coefficient of Friction – Wet	0.7	NFSI B101.1

Liquids only

CURE SCHEDULE

Dry to Touch	6-10 hours
Through Dry	10-12 hours
Dry to Light Use	16-24 hours
Full Cure	7 days

COVERAGE & PACKAGING

Coverage Rate	80 sq.ft./mix
Application Thickness	1/8"
Recoat Window	Within 24 hours
Packaging	3 Gallon kits + Agg
Number of Mixes per Kit	1

STORAGE, HANDLING & SAFETY

Store at 60-80°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.