



Polymer Patching Mix

Data Sheet

Part # PPM

DESCRIPTION: Concrete Solutions® Polymer Patching Mix is a powder polymer additive used for making polymer-modified patching and resurfacing cement mixes. When combined with locally sourced portland cement, sand, and water in specified proportions it creates a cementitious compound that can be used to repair and protect concrete substrates as well as combat its low flexural strength and fragility.

TYPICAL USES: Polymer Patching Mix is used for filling in low spots or smoothing out deteriorated surfaces before laying StoneCrete tiles.

CHEMICAL PROPERTIES:	Result
Weight per Gallon	2.9 lbs
Density, g/ml	0.34
Ash Content	10.0
Volatile Organic Compounds	2%
Color	white free-flowing powder

TYPICAL PHYSICAL PROPERTIES:	Test	Result
Bond Strength - 28 day (psi)	ASTM C-882	2100
ensile Strength - 28 day (psi)	ASTM C-496	430
Flexural Modulus - 7 day (psi)	ASTM C-348	1320
Compressive Strength - 28 day (psi min)	ASTM C-109	4637
Permeability, 28 day (Coulombs)		1535
Glass Transition - Tg (°C)	ASTM D-7028	6°

MOISTURE VAPOR TESTING: All concrete floors not poured over a proper moisture barrier are subject to possible moisture vapor transmission or hydrostatic pressure problems. These problems can cause a coating system to blister or fail. Before applying a coating system over a concrete floor which is on-grade or below grade, a moisture test is recommended to ensure that moisture content meets industry recommended standards.

MIXING INSTRUCTIONS: Combine 5 quarts of water with 2 quarts (2.25 lbs.) of Polymer Patching Mix and 1½ gallons of portland cement (type I-II, II-IV or equivalent) with a mixing drill. Once combined mix in 1½ to 3 gallons of play sand or #30 silica sand until the desired consistency is achieved. Adding 1½ gallons of sand will make a thinner mix for shallow repairs 1/16 – 1/8" thick. Adding 3 gallons of sand will make a thicker mix for deeper repairs up to 1" thick.

TYPICAL COVERAGE: Polymer Patching Mix will resurface up to 100 sq. ft at 1/16" thickness, 50 Sq. ft. at 1/8" thickness or 25 sq. ft. at 1/4" thickness when prepared with the proper amount of sand for the thickness.

APPLICATION INSTRUCTIONS: Fog the surface lightly with water and trowel the patching mix over the substrate to fill in low spots or rough areas. Trowel to a smooth, even finish and feather the edges to zero. Allow the repairs to dry hard before laying StoneCrete Tiles. The above formula will resurface up to 50 Sq. ft. at 1/8" thickness or 25 sq. ft. at 1/4" thickness.

SUBSTRATES: Concrete, asphalt, wood, metal, tile and various types of foam

HOW SUPPLIED: It is available as a powder in 4.5 lb (2.04 kg) or 22.5 lb (10.21 kg) bags.

STORAGE: 70° – 80°F (21° – 27°C). Store in a dry place and do not stack more than six bags high.

CONCRETE SOLUTIONS® POLYMER PATCHING MIX (continued):

SAFETY PRECAUTIONS: Health Considerations: Consult the Rhino Linings® Safety Data Sheets (SDS)

Chemical systems require the use of proper safety equipment and procedures. Please follow the Rhino Linings® product SDS and Safety Manual for detailed information and handling guidelines.

For Your Protection: The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning the products and their uses, applications, storage and handling are only the opinion of Rhino Linings Corporation. Users should conduct their own tests to determine the suitability of these products for their own particular purposes and of the storage and handling methods herein suggested. The toxicity and risk characteristics of products made by Rhino Linings Corporation will necessarily differ from the toxicity and risk characteristics developed when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors.

Because of numerous factors affecting results, **Rhino Linings Corporation makes no warranty of any kind, express or implied**, other than that the material conforms to its applicable current Standard Specifications. Rhino Linings Corporation hereby disclaims any and all other warranties, including but not limited to those of merchantability or fitness for a particular purpose. No statements made herein may be construed as a representation or warranty. The liability of Rhino Linings Corporation for any claims arising from or sounding in breach of warranty, negligence, strict liability, or otherwise shall be limited to the purchase price of the material.

©2017 Rhino Linings Corporation. All rights reserved.



Rhino Linings Corporation

9747 Businesspark Avenue, San Diego, CA 92131
858-450-0441 • Fax 858-450-6881
1-800-422-2603
www.rhinolinings.com

Concrete Solutions by Rhino Linings

7455 Carroll Road, San Diego, CA 92121
1-800-232-8311 • Fax 858-566-4346
www.concretesolutions.com