



Ranger Patch RU-10

Cementitious Urethane Floor Patch

TECHNICAL DATA SHEET

DESCRIPTION

Ranger Patch RU-10 is a high-solids cementitious urethane floor patch designed for hand trowel application. RU-10 has a coefficient of expansion similar to that of concrete allowing it to tolerate large temperature swings (thermal-shock) and service exposure to wet and dry temperatures of up to 220° F.

USES

RU-10 contains zero VOC's, resists caustics, organic and inorganic acids and many other harsh chemicals. RU-10 is ideal for use in food and beverage processing plants and commercial kitchens. RU-10 meets all of the USDA/FDA guidelines for use in federally inspected facilities.

COVERAGE

RU-10 is to be applied at a thickness of 1/4" – 3/8" per lift. Each RU-10 (V.2014) Kit includes one set of Parts A & B Liquids and one 18 lbs. bag of Part C Trowel Aggregate. Approximate PER KIT yield at 1/4" thickness is 10 square feet.

FEATURES

- Highly resistant to thermal shock and elevated temperatures
- High compressive strength and abrasion resistance
- Very good broad spectrum chemical resistance
- Self-priming over bare concrete substrates
- VOC compliant
- Tolerates up to 6lbs per sq. ft. of MVTR (Moisture Vapor Transmission Rate)
- Will tolerate damp substrates during installation
- Can be left without a finish coat or can be sealed with top coats to meet project specific requirements
- Can be applied to freshly poured concrete after minimum 7-day cure time



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TYPICAL PROPERTIES

Mix Design	2 Mixed Quarts of Urethane Liquids (Parts A & B) to one 18 lbs. bag of RT Aggregate (Part C) 520
Viscosity (Mixed)	CPS Typical
Solids Content (%)	95% (ASTM D-2697)
Hardness (ASTM D-2240)	80-90 (Shore D)
VOC	0 g/l (EPA method 24)
Application Temps	50° - 75°F 40° - 50°F (precondition material to 70°F)
Working Time	20 minutes @ 75°F
Recoat time	4-6 hours @ 75°F
Open to foot traffic	6-8 hours @ 75°F
Open to vehicle traffic	12-16 hours @ 75°F
Shelf Life	1 year in unopened containers

SUMMARY

- RU-10 liquids WILL NOT cure properly without the Part C/TR Aggregate added.
- Do not thin this product.
- Do not apply when Humidity exceeds 70% indoors.
- Allow each coat to dry to 'tack-free' or clear prior to re-coat.
- Always apply the next coat within 24 hours of completing the previous application.
- Do not apply this product heavier / thicker than the recommended spread rate / mil thickness.
- As an aromatic urethane Superior products are not very color stability and may discolor and/or "chalk." Discoloration and chalking will not affect patch performance. To prevent discoloration and chalking topcoat with a non- Superior finish coat. Call Superior for specific details.





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SUMMARY (CONT.)

- For applications below 50°F PRE-CONDITION the Superior liquids to 70°F prior to mixing/install.
- All cementitious urethane products naturally produce carbon dioxide bubbles during the cure process but are less prevalent in trowel down applications.
- When installing on an incline, sloping or forming cove base up to 10 pounds of PCA322 aggregate may be added per batch to stiffen the material.

PRODUCT MIXING AND APPLICATION

Empty Part A Base into mixing vessel. Add in Part B Hardener and drill mix on low speed with an oval whisk style mixing blade for 1 minute. Slowly add in Part C and up to 1 vial of Superior Accelerator while continuing to mix for an additional minute until mix is homogenous and lump free. Apply by gauge rake or hand trowel followed by a loop roller as needed to remove trowel marks and bring liquids to surface. Broadcast media onto wet material if so desired for texture. Superior product test data is based on environmental temperatures of 75°F. Viscosity and working time are always affected by temperatures above or below that mark. When applying product always consider the ambient, surface, and product temperature at the time of installation.

COLOR AND TEXTURES

Superior products are available in a wide range of optional topcoats and textures using an appropriate aggregate. Darker colors appear the most uniform.



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PRODUCT STORAGE

DO NOT allow Superior products to freeze. All Superior products should be properly stored above the floor on pallets or shelves, and in an area that has a constant minimum temperature of 50 °F.

SURFACE PREPARATION

Always apply Superior products to a clean/sound substrate that is free of laitance, grease, oils, debris, and curing compounds. Concrete substrates should be cured for a minimum of 7 days prior to application of product. RU-10 is designed for application directly to bare concrete. Mechanical preparation by means of a shot-blasting or diamond grinding machine to a minimum CSP-3 profile is the best and recommended preparation method for RU-10 applications. If the substrate is not properly prepared and the appropriate profile is not achieved, failure of the product to adhere to the substrate may occur.

CHEMICAL RESISTANCE

Always refer to Superior's chemical resistant chart for specific information on each product or contact Superior directly.

CLEAN UP

Application tools and equipment can be cleaned with soap and water immediately after use or with solvent once the product has begun to cure.

DISPOSAL

Product containers will contain product residue and must be disposed of properly. Label warnings must be observed at all times. All containers must be disposed in accordance with federal, state, and local regulations.



4520 Glenmeade Lane Auburn Hills, MI 48326
866.523.5677 | ordersuperior.com



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IMPORTANT NOTICE

Always read and acquaint yourself with Superior's Technical Data Sheet, SDS (safety data sheet), and product labels for each individual product prior to mixing and prior to use. For further assistance, product questions, additional information and/or unexpected or unusual installation conditions—contact your local representative or Superior directly for recommendations. Kit components are pre-measured for optimal performance. Catalyzation errors due to incorrect mixing in the field voids product warranty.

WARRANTY

Information about Superior products is given, to the best of our knowledge, based on tests and experience. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you make your own tests to determine suitability of the product for the particular purpose. As products are often applied or used under conditions beyond our control, Superior cannot guarantee anything except the quality of its products. Superior warrants that the products meet the specifications set forth by Superior, but we reserve the right to change any given specification prior to notice. Superior **DISCLAIMS ALL WARRANTIES RELATING TO THE PRODUCTS AND THEIR APPLICATION, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.** Receipt of a Superior product constitutes acceptance of the terms of this limited warranty and the terms and conditions set out in our invoice, contrary provisions of buyer's purchase documents notwithstanding. Upon receipt of the merchandise, purchaser has 30 days to notify Superior, in writing, that materials are defective. In the event Superior finds that the product delivered is off specification, Superior will, at its sole discretion, either replace the product(s) or refund the purchase price thereof, and Superior's choice of one of these remedies is the buyer's sole remedy. In no event shall the liability of Superior exceed the purchase price of shipped merchandise. Claims must be in writing. Claims after 30 days are void. Superior will, under no circumstances, be liable for special, incidental, or consequential damages. This warranty supersedes all other guaranties, whether oral or written, and whether expressed, implied, or statutory. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Certain products may contain chemicals that may cause serious physical injury. Before using, please read the Safety Data Sheet and follow all precautions to prevent bodily harm.