

CCS™ GROUT, STRIPSEAL™

FAST CURE POLYUREA PASTE ADHESIVE FOR CRACK SEALING

CCS Grout, StripSEAL™ is a two - component, non-sag, polyurea paste adhesive designed for surface sealing of horizontal, vertical and overhead cracks and delaminations in concrete and masonry (dry surfaces only) in preparation for repair with pressure injection equipment. The excellent handling characteristics and fast cure of the product make possible application over a wide range of substrate temperatures and minimizes the interval between crack sealing and pressure injection. Following initial cure of the injection resin, StripSEAL™ may be "stripped" from the surface of the repaired crack by pulling on tabs embedded in the seal at the time of application or by prying-up on the leading edge of the seal with a putty knife, trowel or similar tool. StripSEAL™ has a convenient 1:1 (by volume) mixing ratio and is formulated for easy measuring, mixing and application. Contrasting component colors provide a visual key to proper proportioning and thorough mixing. StripSEAL™ is low in odor and may be considered for interior applications with adequate ventilation. The cured material exhibits generally poor color stability with moderate discoloration and chalking when exposed to direct sunlight.

Features

- Convenient 1:1, by vol. mix ratio
- Short work life for fast cure and low temperature use
- Buttery consistency; non-sagging at applied thickness of 1/8 inch
- Minimal effects on the appearance of the substrate
- Contrasting A and B component colors
- Low odor for interior applications
- Environmentally safe- No VOC solvents

Limitations: The recommended minimum substrate temperature installation and for cure is 40 deg F. Do not apply on damp and wet substrates (dry surfaces only). Do not add solvents or otherwise thin this material.

Packaging & Color: Standard packaging is ½ & 2 gallon (Cans). 22 oz. Cartridges (2 ea. X 22 oz.) & (12 ea. X 22 oz). Mixed color is dark gray.

Shelf Life: One-year minimum in unopened, original containers when stored between 60 and 90 deg F in a dry place away from sunlight. Remixing of components may be required upon prolonged storage; partially used containers of Part A must be flushed with nitrogen and resealed immediately after use to preserve shelf stability.

Surface Preparation: Surfaces must be dry, sound and free of all bond-inhibiting substances. The bond strength of StripSEAL™ to the substrate is primarily determined by the method and depth of substrate surface preparation. For most pressure injection applications (injection pressures less than 100 psi), wire brushing the crack and adjacent substrate surfaces followed by blowing clean with oil-free compressed air is sufficient preparation. For pressure injection applications using higher injection pressures, light sandblasting, grinding or roughening of the substrate is recommended. The ease of seal removal decreases as the depth of substrate surface preparation increases.

Mixing: StripSEAL™ is a two-component system. The resin to hardener (Part A:Part B) mix ratio is 1:1, by volume. StripSEAL™ is a short work life/fast cure material; use quantities that can be applied before the working life of the mixed material expires. Read all material safety data (MSDS) information before handling the product. Wear safety glasses and clean neoprene rubber gloves when handling the materials. Transfer the appropriate quantities of Part A and Part B onto a palette and manually mix with a margin trowel until streak-free and uniform in color. To mix larger quantities, combine Parts A and B and immediately begin mixing with a Jiffy mixer blade attached to a low speed (350-750 rpm) electric or pneumatic drill motor. Other tools such as paint sticks, spatulas, margin trowels, etc., may not provide adequate mixing in a short period of time. Mix thoroughly for approximately 30 seconds. Place the used mixing blade in solvent immediately after mixing. Transfer mixed material onto palettes. This extends working life by minimizing the build-up of mass related exothermic heat.

Installing: Spread a thin layer of material over the crack with a margin trowel taking care to not force material into the crack. Immediately embed pull-tabs in the material. Tabs, approx. ½ inch wide and several inches long may be made of any material that serves the purpose, e.g., cloth, duct tape, fiberglass mat, etc. Pull-tabs may be omitted in favor of prying loose the leading edge of the seal and peeling the material from the substrate. Allow for adequate cure of the StripSEAL™ before beginning pressure injection grouting of the epoxy adhesive (approximately 1 hour @ 73 deg F, 3 hour @ 40 deg F). The seal is sufficiently cured for pressure injection grouting when it resists indentation by finger pressure. (Note: Due to the material's reaction with atmospheric moisture, the surface cure of the applied seal is faster than the bulk cure. Absence of surface tackiness should not be used as an indicator of bulk cure.) Stripping the seal removes a thin layer of the substrate surface and leaves a slightly darkened appearance, If desired, the roughened and darkened surface may be dressed by light sandblasting or grinding. Allow for adequate cure of the epoxy injection resin before removing the seal.

TYPICAL PROPERTIES ⁽¹⁾

Property ⁽²⁾	Test Method	Value
Mix Ratio, A:B, by vol by wt		1:1 100:91
Color: Part A Part B Mixed	VISUAL	White Black Concrete blue-gray
Weight per Gallon approx., lb: Part A Part B Mixed	ASTM D 1475	9.4 8.6 9.0
Viscosity, poise: Part A Part B Mixed	ASTM D 2393	3000 7000 5000
Non-Sag Thickness, inches	ASTM D 2730	1/8
Gel Time, 100 g, minutes: @ 40 F @ 73 F	ASTM D 2471	9 4
Time To Bond Strength Greater Than 200 psi, minutes: @ 40 F @ 73 F	ASTM D 4541	90 (2) 30 (2)
Bond Strength Development @ 73 F, psi Cure Time, minutes 30 60 90	ASTM D 4541 (2)	200 (2) 350 (2) 400 (2)

(1) Cure schedule, 7 days at 73 ± 4 F and test temperature, 73 ± 4 F unless otherwise indicated.

(2) ASTM C 109 cement mortar; compressive strength, 4500 psi. Bonding surfaces prepared by sandblast.

Clean up: Excess mixed product is best removed from the work area and tools before it hardens. Use of rags and solvents such as acetone or heavy-duty detergents facilitate cleaning. Cured product may be removed from tools by soaking in an epoxy stripper.

Handling and Toxicity: This bulletin does not accompany the product when sold. For hazard warnings, safe handling and first aid instructions, READ CAREFULLY THE MATERIAL SAFETY DATA SHEETS AND CONTAINER WARNING LABELS.

Part A: Liquid polyurethane resin, HMIS Health Hazard Rating- 2 (Moderate Hazard). Warning! Causes eye and skin irritation. May cause allergic skin reaction. Harmful if swallowed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid prolonged or repeated contact with skin.

Part B: Liquid amine hardener, HMIS Health Hazard Rating- 2 (Moderate Hazard). Contains alkaline amines. Warning! Causes eye and skin irritation. May cause allergic skin and respiratory reaction. Combustible, corrosive. Do not get in eyes or skin or on clothing. Avoid breathing vapor. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Keep away from heat and open flame.

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