

RIO-FILL GREEN CONSCIOUS



Rapid-curing, Semi-rigid Polyurea control joint filler

DESCRIPTION

RIO-FILL is a 100% solids, two-component, UV resistant, semi-rigid, rapid-curing, polyurea for filling control and construction joints in heavy duty industrial concrete floors.

RIO-FILL allows for joints to be shaved quickly for fast turnaround. RIO-FILL has been designed for use in compliance with ACI 302, section 4.10 recommendations for joint fillers used in saw cut/control joints with a Shore A Durometer of 85.

RIO-FILL can also be used for the repair of damaged or spalled joint nosing and cracks.

RIO-FILL is available in 4 additional architectural colors.

USES

- Industrial & Commercial Floors
- Control & Construction Joints
- Crack & Joint repair

FEATURES/BENEFITS

- Easy 1 to 1 ratio, pourable/pumpable consistency
- UV Resistant, Colorfast
- High elongation (200%) to resist tearing due to excessive movement
- Semi-rigid flexibility that does not weld slabs together or become brittle with age
- Optimum hardness (Shore A = 85) to transfer wheel loads while allowing moderate movement
- Can be applied and cures down to -20° F
- Quicker turnaround/less downtime than epoxy joint fillers

SPECIFICATIONS/COMPLIANCES

- Accepted for use in USDA, FDA, and CFIA regulated facilities - Authorized for use in federally inspected meat & poultry plants.
- Complies with ACI 302 guidelines and PCA Concrete Floors on Ground for "Floor Joint Filler"
- 100% Solids contains no VOC's, LEED compliant.

APPLICATION

Joint preparation Joints must be clean, dry and free of curing compound, densifiers, sealers and any other foreign substances. To remove the above, use a vacuum equipped, dry cut abrasive blade and oil-free compressed air to remove any water or dust prior to applying RIO-FILL.

Per ACI and PCA guidelines, RIO-FILL should be installed full depth in sawcut control joints and a minimum of 2" in joints greater than 2" deep. Do not use compressible backer rod to reduce volume in saw cut control joints.. RIO-FILL should be applied to a minimum depth of 1".

APPLICATION (con't)

In construction joints (un-cut full slab depth), dry sand or backer rod can be used to reduce volume provided a minimum 2" depth is maintained.

Mixing instructions

Temperature of RIO-FILL must be 50°F or above at the time of mixing. Stir/shake each component before dispensing. Use a 1:1 low pressure duplex/plural component metered pump with a 3/8" x 24" element static mixer.

Application

When using a cartridge or a plural component pump, dispense mixed material into a waste container to assure a uniform color and a consistent 1:1 ratio. Then dispense properly mixed RIO-FILL into the prepared joint. Joints should be overfilled and allowed to cure for approximately 1 hour and up to 24 hours before shaving flush with a floor razor scraper. The cut joint must be flush with the floor to effectively transfer wheel loads.

Stain Protection

Since RIO-FILL sets so quickly, the potential for any overfill to stain the sides of the joint is unlikely. In applications where aesthetic and decorative or architectural finishes are critical, we recommended using RIO-GUARD as a stain protectant and also to facilitate shaving. If RIO-FILL is installed in a floor before maximum shrinkage has occurred, a crack may appear either adhesively or cohesively. This should not be considered a failure of the RIO-FILL, which will continue to support the joint edge and transfer wheel loads. To remedy the situation, clean out the crack, wipe clean with Rio Flooring Systems Solvent 100 and refill with RIO-FILL.

TYPICAL TEST DATA

Color (mixed)	Dovetail Gray
Mix Ratio	1 to 1 by volume
Gel Time at 75°F	30 seconds
Tack-free at 75F	3-4 minutes
Shave Time @ 75°F	20-25 mins
Return to Traffic @ 75F	1 hour
Adhesion to Concrete	275 psi
Tensile ASTM D 638	1225 psi
Shore A Hardness	85
Shore D Hardness	30

CLEANING

Tools and Equipment: Uncured material can be removed with Rio Flooring Systems Solvent 100 or other approved solvent. Dispose of in accordance with local, state, and federal disposal regulations. Mechanical removal is necessary for cured material.

SHELF LIFE

Store RIO-FILL in its original containers and keep tightly closed between 55-90° F. Do not allow the accumulation of water, dirt or other contaminants. The shelf life of properly stored RIO-FILL is one year from date of manufacture.

COVERAGE RATE					
Lineal feet per gallon: Theoretical					
W I D T H					
D E P T H	inches	3/16	1/4	3/8	1/2
	1"	100	76	50	36
	2"	50	38	25	18

PACKAGING

22 fl oz cartridges and 10 gallon units

LIMITATIONS/PRECAUTIONS

Joint should be clean and dry for optimum adhesion.

Cold temperatures will delay set, cure, and shaving time. To facilitate applications in cold temperatures, condition the product to 75°F and if possible warm the area to be repaired to help accelerate set/cure time.

Always test a small amount of RIO-FILL to verify that the product has been thoroughly mixed and will hard-en properly before proceeding.

RIO-FILL is designed for low adhesive strength to encourage separation when exposed to excessive concrete slab shrinkage.

RIO-FILL should not be installed on new concrete floors until maximum shrinkage has occurred. ACI 302 recommends a minimum of 30 days and preferably 90 days for all semi-rigid polyureas and epoxies. The longer the time period allowed for curing the concrete prior to installation of RIO-FILL, the better the performance.

RIO-FILL should not be installed until the building is under permanent temperature control.

Do not thin RIO-FILL with solvents. Do not use exterior or as an expansion joint sealant.

Although UV resistant RIO-FILL may slightly discolor if exposed to strong and constant sources of ultra-violet radiation.

Keep away from food and food containers.

WARRANTY

NOTICE-READ CAREFULLY

CONDITIONS OF SALE

Rio Flooring Systems offers this product for sale subject to and limited by the warranty which may only be varied by written agreement of a duly authorized corporate officer of Rio Flooring Systems. No other representative of or for Rio Flooring Systems is authorized to grant any warranty or to waive limitation of liability set forth below.

WARRANTY LIMITATION

Rio Flooring Systems warrants this product to be free of manufacturing defects. If the product when purchased was defective and was within use period indicated on container or carton, when used, Rio Flooring Systems will replace the defective product with new product without charge to the purchaser. Rio Flooring Systems makes no other warranty, either expressed or implied, concerning this product. There is no warranty of merchantability. NO CLAIM OF ANY KIND SHALL BE GREATER THAN THE PURCHASE PRICE OF THE PRODUCT IN RESPECT OF WHICH DAMAGES ARE CLAIMED.

INHERENT RISK

Purchaser assumes all risk associated with the use or application of the product.



23580 St Clair Avenue
Euclid, Ohio 44117
Plant: 440-510-1803
Office: 440-605-1020
info@riofloor.com
riofloor.com

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CRUPC.COM