

Spec•Joint CJ

100% Solids Semi-Rigid Epoxy Joint Filler

Description

Spec•Joint CJ is a 100% solids, two component, semi-rigid, epoxy joint filler specially designed to reduce spall-back and help support the joint edges of industrial concrete floors subjected to hard wheel traffic. Spec•Joint CJ has been designed for use under ACI 302 for epoxy joint fillers. Spec•Joint CJ is a 100% solids, non-shrink, flexible epoxy which forms a tough resilient material used to repair existing cracks and other spalled joints in concrete floors.

Manufacturer

Conspec
 4226 Kansas Avenue
 Kansas City, Kansas 66106
Customer Service (800) 348-7351
Technical Service (877) CONSPEC

Use

Spec•Joint CJ should be used in industrial floor joints subjected to hard-wheel traffic. Spec•Joint CJ is ideal for control and construction joints either saw cut or formed. Use Spec•Joint CJ as a joint and crack filler or as a flexible epoxy mortar binder to repair spalled or damaged joints.

Benefits

- Pourable gray consistency
- Easy 1 to 1 mix ratio
- High elongation to resist tearing due to excessive movement
- Moisture insensitive to cure in damp environments
- Semi-rigid flexibility that does not weld slabs together or become brittle with age
- Optimum hardness to transfer wheel loads while allowing moderate movement

Applicable Standards

USDA accepted.*
 Complies with ACI 302 guidelines for "Epoxy Joint Filler".
 Complies with all VOC regulations.
 * Authorized for use in federally inspected meat and poultry plants.

Application

Surface Preparation - New Concrete: Joints must be clean and free of curing compound, sealers and any other foreign substances. To remove the above, sandblast or wire brush. Immediately prior to applying Spec•Joint CJ, remove any water and dust from all surfaces with an oil-free air blast.

Surface Preparation - Old Concrete: Old joints should be routed to remove old material and enlarge joint width if necessary. Use fine sand to plug shrinkage cracks in the bottom of the joint allowing at least a 1"(25mm) full depth pour and maintain a 2 to 1 depth to width ratio for Spec•Joint CJ.

Mixing Instructions: Temperature of Spec•Joint CJ must be 50°F (10°C) or above at time of mixing. Mix each component separately then

Architectural Specifications

Epoxy Joint Filler: All non-moving floor joints shall be filled with a 100% solids, two component, semi-rigid epoxy having a cured Shore A Durometer of 85 ± 5. Install no earlier than 30 days after concrete is placed, 60 to 90 days if possible. Approved product: Conspec Spec•Joint CJ or approved equivalent.

APPLICATION PROPERTIES

Mix Ratio	1:1 by volume
Gel Time (60gm mass)	20 minutes
Color(mixed)	light gray
Initial Cure	8 hours@73°F(23°C)
Final Cure	48 to 72 hours
Shore A Hardness	85 ± 5
Tack Free Time at 75°(24°C)	3-4 hours
Viscosity	Self-leveling
Cured Properties	
Artificial Weathering (ASTM G23- Type D)	10-15% elastomeric property change @ 1000 hours
Bond Cohesion after Water Immersion (Fed. Spec. TT-S-00227E)	No failure after 25% total movement
Tensile Strength (ASTM D-638)	650 psi (4.5 MPa)
Ultimate Elongation (ASTM D-638)	70%
Tear Resistance (ASTM D-624-73)	30 lbs./in. (5358 gm/cm)
Service Temperature	30°F to 180°F (-1° to 82°C)
Modulus of Elasticity ASTM D695	<80,000psi (551.70Mpa)

thoroughly mix Part A with Part B for a minimum of three minutes with a low speed electrical drill motor equipped with a jiffy mixer or paint paddle.

Application: Spec•Joint CJ can be applied with a caulking gun or poured from a suitable container. Two passes may be required as pourable materials have a tendency to dish out or settle. **The filled joint must be flush with the floor.**

Another technique is to over fill the joint and once tack-free, grind or cut flush to surface of concrete with a razor knife. A heat flame may facilitate cutting if the Spec•Joint CJ has completely hardened.

Note: If Spec•Joint CJ is installed in a floor before maximum shrinkage has occurred, a crack may occur either adhesively or cohesively. This should not be considered a failure of the Spec•Joint CJ which will still continue to support the joint edge and transfer wheel loads. To remedy the situation, clean out the crack, wipe clean with MEK and refill with Spec•Joint CJ.

Packaging

Unit Sizes:

2 Gallon (7.6 liters)

10 Gallon (37.8 liters)

Limitations/Precautions

Spec•Joint CJ should not be installed on new concrete floors until maximum shrinkage has occurred. Generally speaking, this time period is a minimum of 30 days. Spec•Joint CJ should not be installed until the building is under permanent temperature control. Spec•Joint CJ is designed to be a full depth joint filler. Minimum application temperature is 50°F (10°C).

Do not thin Spec•Joint CJ with solvents. Do not apply over standing water. Do not use as an expansion joint sealant.

Danger! Causes severe eye and skin burns. May cause blindness. Harmful if swallowed. May cause allergic reaction. Do not handle or use until the Material Safety Data Sheet has been read and understood. Do not get into eyes, on skin or clothing. Use safety glasses with side shields and wear protective rubber or polyethylene gloves. Avoid breathing vapor or mist. Keep container closed. Use only in well ventilated locations. In case of contact, wash immediately with soap and water. Remove contaminated clothing and clean before re-use. Wash thoroughly after handling and before eating, drinking or smoking.

Keep away from food and food containers.

Avoid hazards by following all precautions found in the Material Safety Data Sheet (MSDS), product labels and technical literature. Please read this information prior to using the product.

Epoxies may yellow, discolor, or chalk upon exposure to strong sources of Ultra-Violet radiation such as from sunlight, and some types of industrial artificial lighting.

Warranty

Conspec warrants, for 12 months from the date of manufacture or for the duration of the published product shelf life, whichever is less, that at the time of shipment by Conspec, the product is free of manufacturing defects and conforms to Conspec's published specifications in force on the date of acceptance by Conspec of the order. Conspec shall only be liable under this warranty if the material has been applied, used, and stored in accordance with Conspec's instructions in this technical data sheet. The purchaser must examine the product when received and promptly notify Conspec in writing of any non-conformity before the product is used, or no later than 30 days after such non-conformity is first discovered. If Conspec, in its sole discretion, determines that the product breached the above warranty, it will, in its sole discretion, replace the non-conforming product, refund the purchase price or issue a credit in the amount of the purchase price. This is the sole and exclusive remedy for breach of this warranty. Only a Conspec officer is authorized to modify this warranty. The sales information on the Conspec website and received by the customer during the sales process does not supersede this warranty and the specifications of the product in force on the date of sale. **THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM, TRADE OR OTHERWISE.**

Limitation of Liability

Conspec shall not be liable in contract or in tort (including, without limitation, negligence, strict liability or otherwise) for loss of sales, revenues or profits; cost of capital or funds; business interruption or cost of downtime, loss of use, damage to or loss of use of

other property (real or personal); failure to realize expected savings; frustration of economic or business expectations; claims by third parties (other than for bodily injury), or economic losses of any kind; or for any special, incidental, indirect, consequential, punitive or exemplary damages arising in any way out of the performance of, or failure to perform, this Agreement, even if Conspec could foresee or has been advised of the possibility of such damages. The Parties expressly agree that these limitations on damages are allocations of risk constituting, in part, the consideration for this agreement, and also that such limitations shall survive the determination of any court of competent jurisdiction that any remedy provided in these terms or available at law fails of its essential purpose.

Storage

Spec•Joint CJ should be stored in a dry environment between 40-95°F (5°-35°C). Under these conditions, the shelf life is two (2) years in unopened, damage-free containers.

Technical Services

Complete technical and specification services are available from the manufacturer and their authorized representatives and distributors.

Filing System

Additional literature and the Material Safety Data Sheet can be obtained from Conspec upon request.

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LINEAL FEET PER GALLON								
(meters/liter)		Joint Opening - Inches (mm)						
		1/8	1/4	3/8	1/2	5/8	3/4	1
		(3.2)	(6.4)	(9.5)	(12.7)	(15.8)	(19.1)	(25.4)
Depth - Inches (mm)	1/4 (6.4)	616.0 (49.6)	308.0 (24.8)	205.3 (16.5)	154.0 (12.4)	123.2 (9.9)	102.7 (8.3)	77.0 (6.2)
	1/2 (12.7)	308.0 (24.8)	154.0 (12.4)	102.7 (8.3)	77.0 (6.2)	61.6 (4.9)	51.3 (4.1)	38.5 (3.1)
	3/4 (19.1)	205.3 (16.5)	102.7 (8.3)	68.4 (5.5)	51.3 (4.1)	41.1 (3.3)	34.2 (2.8)	25.7 (2.1)
	1 (25.4)	154.0 (12.4)	77.0 (6.2)	51.3 (4.1)	38.5 (3.1)	30.8 (2.5)	25.7 (2.1)	19.3 (1.6)
	1 1/4 (31.8)	123.2 (9.9)	61.6 (4.9)	41.1 (3.3)	30.8 (2.5)	24.6 (2.0)	20.5 (1.6)	15.4 (1.2)
	1 1/2 (38.1)	102.7 (8.3)	51.3 (4.1)	34.2 (2.8)	25.7 (2.1)	20.5 (1.6)	17.1 (1.4)	12.8 (1.0)
	1 3/4 (44.5)	88.0 (7.1)	44.0 (3.5)	29.3 (2.4)	22.0 (1.8)	17.6 (1.4)	14.7 (1.2)	11.0 (.9)
	2 (50.8)	77.0 (6.2)	38.5 (3.1)	25.7 (2.1)	19.3 (1.6)	15.4 (1.2)	12.8 (1.0)	9.6 (.8)
	2 1/2 (63.5)	61.6 (4.9)	30.8 (2.5)	20.5 (1.6)	14.7 (1.2)	12.3 (1.0)	10.3 (.8)	7.7 (.6)
	3 (76.2)	51.3 (4.1)	25.7 (2.1)	17.6 (1.4)	12.8 (1.0)	10.3 (.8)	8.6 (.7)	6.4 (.5)