

SELECTION & SPECIFICATION DATA

Generic Type	UV resistant, 100% solids polyurea joint sealant
Description	Carboseal Flex Joint is a UV resistant, 100% solids, two component, heavy duty, semi-rigid polyurea joint sealant designed for filling and protecting control joints and saw cut construction joints in industrial and commercial floors. Developed to fill typical construction joints in order to protect joint edges from spalling and to seal open joints. Using Carboseal Flex Joint will create a longer lasting floor and reduce the areas where bacteria can hide and grow. It has the unique benefit of being able to be shaved within minutes or up to 24 hours later.
Features	<ul style="list-style-type: none"> • High UV resistance • Fast installation • Excellent elongation properties • Quick shave time with a long open shaving window. • Durable • Cures in temperatures as low as -20°F (-29°C) • Variety of colors available • Suitable for use in USDA inspected facilities.
Typical Uses	Carboseal Flex Joint is used in concrete construction to control joints and repair cracks and joints in existing floors. It is ideal for sealing around drains and terminations. It assists in transferring load between concrete slabs.
Color	<p>Light Grey (Q700), Medium Grey (Q701), Black (Q900), Red (Q500), Black (Q900), and Beige (Q201)</p> <p>Carboseal Flex Joint may present a variation in color from batch to batch. If possible, use the same batch or "box" the Part B after pre-stirring each pail to ensure color uniformity.</p>
Theoretical Coverage Rates	<p><i>Coverage given in linear ft/gal (linear m/L)</i></p> <p><u>3/16" (4.8 mm) Joint Width:</u> 68 ft (5.5 m) @ 1.5" (38 mm) joint depth 51 ft (4.2 m) @ 2" (51 mm) joint depth 41 ft (3.2 m) @ 2.5" (63 mm) joint depth</p> <p><u>1/4" (6.4 mm) Joint Width:</u> 51 ft (4.2 m) @ 1.5" (38 mm) joint depth 38 ft (3.2 m) @ 2" (51 mm) joint depth 30 ft (2.4 m) @ 2.5" (63 mm) joint depth</p> <p><u>3/8" (9.5 mm) Joint Width:</u> 34 ft (2.6 m) @ 1.5" (38 mm) joint depth 25 ft (2.1 m) @ 2" (51 mm) joint depth 20 ft (1.6 m) @ 2.5" (63 mm) joint depth</p> <p>Detailed application instructions are available upon request. Coverages listed are theoretical, actual coverage's may vary based on substrate and site variations.</p>
Viscosity	<p><u>ASTM D2196:</u> Part A: 2,000 cP Part B: 1,800 cP</p>

SUBSTRATES & SURFACE PREPARATION

General | Ensure the joint is clean, dry and free from contaminants. Cleaning can be carried out with a vacuum and oil free compressed air. All joint facings must possess an open surface with all curing compounds and sealers removed.

PERFORMANCE DATA

All test data was generated under laboratory conditions. Field testing results may vary.

Test Method	Results
Adhesion to Concrete @ 7 days (ASTM D4541)	250 psi
Elongation at Break @ 14 days (ASTM D638)	249%
Shore A Hardness (ASTM D2240)	84 Shore A
Shore D Hardness (ASTM D2240)	33 Shore D
Tensile Strength @ 14 days (ASTM D638)	1,200 psi (8.9 MPa)

The figures above are typical properties achieved in laboratory tests at 70°F (21°C) and at 50% Relative Humidity.

MIXING & THINNING

Mixing | Power mix Carboseal Flex Joint Hardener B until the pigments are dispersed into a homogeneous liquid prior to loading into plural component application equipment. Do not batch mix Carboseal Flex Joint Base A & Carboseal Flex Joint Hardener B.

Carboseal Flex Joint cartridges must be shaken before using, as some settlement is normal during storage.

Thinning | Not recommended

Ratio | 1:1 by volume

Gel Time | 28 seconds

APPLICATION PROCEDURES

General | Carboseal Flex Joint must be installed in the joint full depth. Joints should be slightly over filled and shaved smoothly with the surrounding joint edges, giving the floor joints a flat appearance. Shaving of excess Carboseal Flex Joint can begin approximately 1 hour after placement, and up to 24 hours later, depending on jobsite conditions such as the concrete and ambient temperatures.

To provide proper load transfer, Carboseal Flex Joint must be filled full depth of the joint or crack. Do not use backer rod or other fill material for the purpose of reducing volume. Dried silica sand, 1/16" to 1/8" (1.5 to 3 mm), may be used to fill the crack at the bottom of the joint and prevent three-sided adhesion.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	50°F (10°C)	-20°F (-29°C)	-20°F (-29°C)	0%
Maximum	90°F (32°C)	90°F (32°C)	90°F (32°C)	85%

CURING SCHEDULE

Surface Temp.	Gel Time	Tack Free	Light Traffic	Heavy Traffic
70°F (21°C)	28 Seconds	4 Minutes	1 Hour	2 Hours

Shave window is 1-24 hours at 70°F (21°C)

CLEANUP & SAFETY

Cleanup	Tools, equipment and general clean-up can be done with solvent or acetone. Clean equipment before product has cured. Cured material will require removal by mechanical means.
Safety	Read and follow all caution statements on this product data sheet and on the SDS for this product. Employ normal workmanlike safety precautions. Use adequate ventilation. Keep container closed when not in use.

PACKAGING, HANDLING & STORAGE

Packaging	<p>12 x 22 oz Cartridges per unit (2.07 gallons) - 24 lb. (10.9 kg) Unit Carboseal Flex Joint Base A - 11 oz Carboseal Flex Joint Hardener B - 11 oz 10 Gallon Unit - 92.5 lb. (42 kg) 5 Gallons of Carboseal Flex Joint Base A - 48 lb (21.8 kg) 5 Gallons of Carboseal Flex Joint Hardener B - 44.5 lb (20.2 kg)</p>
Shelf Life	12 months in unopened container
Storage	50-90°F (10-32°C) Do not freeze.
Shipping Weight (Approximate)	Approx. 1.5 lb (0.68 kg)
Flash Point (Setaflash)	Part A: 325°F (163°C) Part B: >200°F (>93°C)

WARRANTY

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