CRACKBOND® JF-82 FAST

Fast Curing Polyurea Joint Filler

Standard Base (Pre-pigmented) &
Unpigmented Polyurea Base (Tintable)



Unpigmented Base Kit Pigmented Base Kit

LEED CERTIFIED

Product Description

CRACKBOND® JF-82 FAST is a two-component, rapid-curing polyurea control joint filler engineered for heavy-duty traffic and freezer environments. Its solvent-free, flexible formulation accommodates up to 10-15% joint movement based on the installed joint width, helping maintain long-term performance under demanding conditions. The product can be applied and perform effectively in temperatures ranging from -40 °F to 120 °F (-40 °C to 49 °C).

When purchased as an unpigmented base system, Part B (Hardener) can be tinted in-store to one of twelve (12) available colors. This exclusive tinting option is offered through Sherwin-Williams Commercial and High Performance Flooring (HPF) locations. Refer to the information below for additional details.

General Uses & Applications

- Treats moving cracks
- Used to fill tooled interior/exterior control joints or new construction saw joints on horizontal concrete surfaces
- Protects joint edges from spalling due to wheeled traffic
- For best performance, the maximum joint width is 3/4 in. (19 mm) and joint depth should be a minimum of 3 times the width for industrial floor applications receiving heavy duty vehicle traffic
- Minimum depth can be reduced to 1/2 in. (13 mm) for foot traffic
- May be used for exterior applications when minimal joint movement from thermal cycling will occur
- Keeps joints free of debris and provides a continuous surface for weight loading

Advantages & Features

- Sherwin-Williams offers in-store tinting in 12 color options to provide a closer match to the surrounding concrete slab; This custom tinting service is available exclusively for 10-gallon unpigmented kits
- The repaired crack or control joint can be shaved within a minimum of 30 minutes at 75 °F (24 °C)
- Complies with ACI 302.1R-15 Guide to Concrete Floor and Slab Construction regarding control and construction joint fillers
- CRACKBOND JF-82 FAST contributes toward satisfying credits of Indoor Environmental Quality for Low-Emitting Materials under LEED®
- Treated joints may be opened to foot and light vehicular traffic in 90 minutes at 75 °F (24 °C)
- Self-leveling, low viscosity system
- Wide application and service temperature range, including freezer applications
- Acceptable for use in USDA inspected facilities

Availability: Adhesives Technology Corp. (ATC) products are available online and through select distributors providing all your construction needs. Please contact ATC for a distributor near you or visit www.atcepoxy.com for online purchasing options or to search for a distributor by zip code.

Color & Ratio: Mixed Ratio: 1:1 by volume

Standard Color - Part A (Resin) Amber: Part B (Hardener) Gray, Mixed Color - Concrete Gray.

Unpigmented Color- Part B (Hardener) Clear.

There are two base system for CRACKBOND JF-82 Fast in 10-gallon kits. The standard base system and unpigmented base system are exclusive to Sherwin Williams Commercial & High Performance Flooring store locations. Twelve (12) colors are loaded into the Sherwin Williams dispensing system for quick in-store tinting. The two base systems have different part numbers, descriptions, and UPC codes. See the table below for the part numbers for each base system.

Storage & Shelf Life: 18 months when stored in unopened containers in dry conditions. Store between 60 °F and 90 °F (16 °C and 32 °C).

Installation & Coverage: See Installation Instructions available within this Technical Data Sheet (TDS). Due to occassional updates and revisions, always verify and use the most current instructions. See Table 5 for coverage details. In order to achieve maximum results, proper installation is imperative.

Clean-Up: Always wear appropriate personal protective equipment such as safety glasses and gloves. Clean uncured materials from tools and equipment using a mild solvent. Cured material may only be removed mechanically using a sander or grinder. Collect with absorbent material. Flush area with water. Dispose of in accordance with local, state and federal disposal regulations.

Limitations & Warnings:

- Not for use in expansion joints
- Remove standing water, dirt & debris or any other possible bond breaker as substrate should be clean and dry for optimal result
- Product should not be stored once opened
- Cartridge balancing and crack repair instructions must be strictly followed
- Not intended for exterior or interior joints that are subject to high movement
- Before applying a topcoat, it is recommended that the user check with coating manufacturer for compatibility with polyurea based products as ATC is not responsible for coating incompatibility

IMPORTANT: The user assumes all risks when applying a topcoat. It is recommended to first try a small test area to confirm compatibility and performance. Incompatibility may result in discoloration or adhesion failure of topcoat.

Safety: Please refer to the Safety Data Sheet (SDS) for CRACKBOND JF-82 FAST. Call ATC for more information at 1 -800-892-1880.

Specification: Joint filler material shall be a two-component, 1:1 ratio, solvent free polyurea system. After a seven day cure and 75 °F (24 °C), the polyurea material shall have a tensile strength of 500 psi (3.4 MPa) and elongation of 80% per ASTM D638. Adhesive shall be CRACKBOND JF-82 FAST from Adhesives Technology Corp., Pompano Beach, Florida.

Revision 3.0

TABLE 1: CRACKBOND JF-82 FAST Adhesive, Dispensing Tools and Mixing Nozzles[1]

Package Size	20.3 fl. oz. (600 ml) Cartridge	10 Gallon (38 L) Standard Kit	10 Gallon (38 L) Unpigmented Kit[2]
ATC Part #	A22-JF82FAST	B5G-JF82FAST-A B5G-JF82FAST-B	B5G-JFUPF-A B5G-JFUPF-B
Sherwin Williams Part #	101747422	Part A - 101800233 Part B - 101800225	Part A - 10418631 Part B - 10418649
Recommended Mixing Nozzle	T12	----	----
Manual Dispensing Tool	TM22HD	----	----
Pneumatic Dispensing Tool	TA22HD-A	Pump[2]	Pump[2]
Case Qty.	12	1	1
Pallet Qty.	576	12 kits	12 kits
Pallet Weight (lbs.)	1,169	1,178	1,178

1. Each cartridge is packaged with one mixing nozzle.
2. For bulk dispensing pumps, contact ATC for recommended manufacturers.



A22-JF82FAST



B5G-JF82FAST-A (STANDARD BASE)



TM22HD



TA22HD-A

T12



B5G-JFUPF-A (UNPIGMENTED)



B5G-JFUPF-B (UNPIGMENTED)



B5G-JF82FAST-B (STANDARD BASE)

TABLE 2: CRACKBOND JF-82 FAST performance to ASTM Standards[1,2,3]

Property	Cure Time	ASTM Standard	Units	Sample Conditioning Temperature 75 °F 24 °C
Gel Time 60 Gram Mass	----	C881	sec	30
Tack-Free Time (30 mil Thin Film)	----	D2377	min	5 - 10
Viscosity	----	D2196	cP	Part A: 2,000 Part B: 1,900
Tensile Strength	7 day	D638	psi (MPa)	500 (3.4)
Tensile Elongation			%	80
Shore A Hardness		D2240	----	70 - 75
Bond Strength	2 day	C882	psi (MPa)	400 (2.8)
Adhesion to Concrete	----	D4541	psi (MPa)	275 (1.9)

1. Results based on testing conducted on a representative lot(s) of product. Average results will vary according to the tolerances of the given property.
2. Full cure is listed above to obtain the given properties for each product characteristic.
3. Results may vary due to environmental factors such as temperature, moisture and type of substrate.

TABLE 3: CRACKBOND JF-82 FAST Cure Schedule[1,2,3]

Base Material Temperature °F (°C)	Working Time min	Trim/Shave Time[4] hr	Full Cure Time hr
0 (-18)	5	6	48
75 (24)	0.5	0.5	24
120 (49)	0.25	0.33	12

1. Working and full cure times are approximate, may be linearly interpolated between listed temperatures and are based on cartridge/nozzle system performance.
2. Application Temperature: Substrate and ambient air temperature should be between -40 to 120 °F (-40 to 49 °C).
3. When ambient or base material temperature falls below 40 °F (4 °C), condition the product between 40 to 85 °F (4 to 29 °C) prior to use.
4. Trim/Shave times are estimates and based on a 1/2 in. (13 mm) bead. At 75 °F (24 °C), some installers may prefer to wait 1 hour depending upon installation conditions.

TABLE 4: CRACKBOND JF-82 FAST Unpigmented Base Color Options with Formulas

Requirements
Sherwin-Williams stores performing this process must:

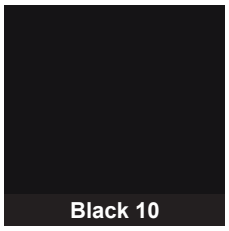
- Be a Commercial and/or High Performance Flooring (HPF) location
- Have GIC colorants available in their tinting dispenser

Failure to meet these requirements will prevent proper tinting of the product.



White 00

GIC Colorant	oz	32nd	64th	128th
WHT-White	18	24	-	-



Black 10

GIC Colorant	oz	32nd	64th	128th
BLK-Black	4	32	-	-



Beige 20

GIC Colorant	oz	32nd	64th	128th
WHT-White	10		-	-
BLK-Black	-	18	-	-
ROX-Red Oxide	-	5	-	-
YOX-Yellow Oxide	2	21	-	-



Mocha 30

GIC Colorant	oz	32nd	64th	128th
WHT-White	1	6	-	-
BLK-Black	2	16	-	-
ROX-Red Oxide	-	22	-	-
YOX-Yellow Oxide	8	7	-	-



Cardboard 40

GIC Colorant	oz	32nd	64th	128th
WHT-White	2	16	-	-
BLK-Black	-	20	-	-
ROX-Red Oxide	-	10	-	-
YOX-Yellow Oxide	12	16	-	-



Dark Brown 50

GIC Colorant	oz	32nd	64th	128th
WHT-White	-	5	-	-
BLK-Black	3	27	-	-
ROX-Red Oxide	4	29	-	-
MAG-Magenta	6	3	-	-



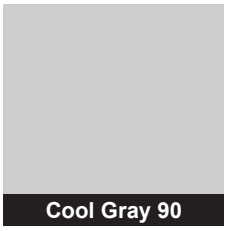
Brick Paver Red 60

GIC Colorant	oz	32nd	64th	128th
WHT-White	-	44	-	-
TBL-Blue	-	26	-	-
ROX-Red Oxide	2	57	-	-
RED-Red	-	22	-	-



Ocean Blue 70

GIC Colorant	oz	32nd	64th	128th
WHT-White	6	16	-	-
BLK-Black	-	12	-	-
TGR-Green	-	20	-	-
TBL-Blue	7	16	-	-



Cool Gray 90

GIC Colorant	oz	32nd	64th	128th
WHT-White	14	17	-	-
BLK-Black	-	6	-	-



Warm Gray 91

GIC Colorant	oz	32nd	64th	128th
WHT-White	15	6	-	-
BLK-Black	-	20	-	-
TGR-Green	-	4	-	-
ORN-Orange	-	4	-	-



Medium Gray 92

GIC Colorant	oz	32nd	64th	128th
WHT-White	13	5	-	-
BLK-Black	1	13	-	-
ROX-Red Oxide	-	5	-	-
YOX-Yellow Oxide	-	9	-	-



Dark Gray 93

GIC Colorant	oz	32nd	64th	128th
WHT-White	10	20	-	-
BLK-Black	5	10	-	-
ROX-Red Oxide	-	5	-	-

Note: *Colors displayed on the website, in digital media, or in printed brochures are approximate representations and may not exactly match the finished installation. The final appearance may vary due to jobsite conditions, substrate preparation, application techniques, lighting, and the inherent characteristics of each concrete slab.*

Installation Instructions

Joint Preparation: CRACKBOND JF-82 FAST will accommodate 10-15 % movement, but is not intended for joints subject to high movement.

- **Do not use in Expansion Joints;** Use for exterior and interior control joints or moving cracks
- Concrete should be at least 28 days old and bonding surface must be dry
- Heavy Duty Traffic Areas: The joint width should be a maximum of 3/4 in. (19 mm); The depth should be a minimum of 3 times the width, or 2.2 in. (57 mm)
- Light Foot Traffic Areas: The joint width should be a maximum of 3/4 in. (19 mm); The depth should be a minimum of 1/2 in. (13 mm)

Cartridge Preparation - Invert cartridge 24 hours prior to use

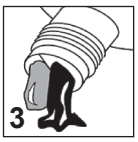
Shake the cartridge vigorously for 60 seconds, then stand cartridge upright for at least 1 minute allowing any bubbles to rise to the top.



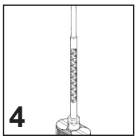
Insert cartridge into the dispenser. Make sure it is properly positioned with the shoulder of the cartridge flush with the front/top bracket of the dispenser. Point upward at a 45° angle. Remove the plastic cap and plug from the top of the cartridge.



IMPORTANT: Before attaching nozzle, balance the cartridge by slowly dispensing a small amount of material into a disposable container until both components flow evenly from the cartridge. Install mixing nozzle onto cartridge.



Continue to point the nozzle upward away from yourself and others while slowly applying pressure to dispenser moving any bubbles and product up through the nozzle until it reaches the tip. Dispense the first full stroke of material into disposable container. The cartridge is now purged and ready for use. NOTE: Schedule dispensing to consume an entire cartridge at one time with no interruption of flow to prevent material from hardening in mixing nozzle. If problems occur while dispensing product, replace the nozzle; the product may have begun to cure in the nozzle which will affect the mix ratio. Never transfer a used nozzle to a new cartridge. Repeat the cartridge balancing steps listed above after replacing the nozzle.



10 Gallon Kit Preparation -Blend Part B separately using a mixing paddle attached to a power drill set to a slow RPM for 3 minutes. Avoid whipping air into the material during mixing. Cover the container until it is ready to be poured into the proportioner pump. Refer to the pump instruction manual for additional operating instructions.

10-gallon unpigmented kits - The Sherwin-Williams store will tint Part B to produce each of the 12 available colors. See chart for tint formulas and the ordering process. At the jobsite, mix the tinted part B for 6 minutes of low RPM mixing with a jiffy mixer / drill mixer blade. Complete this mixing **ONLY FOR THE TINTED PART B, BEFORE BLENDING WITH PART A.**

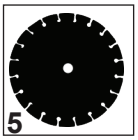


Figure 1

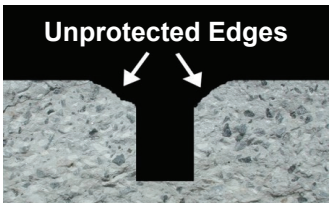
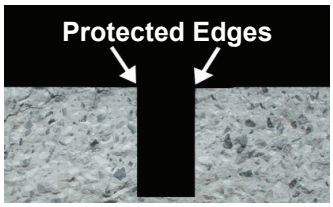
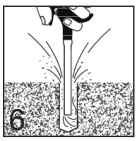


Figure 2



Repairing Cracks or Filling Control Joints

For optimal results, substrate and environment should be **completely dry without any presence of moisture** prior to usage. To fill cracks, use a saw or grinder with a dry diamond or concrete abrasive blade and cut along the crack opening it up to 1/8 in. to 1/4 in. wide. The edges must be a 90° angle to the surface (see Figure 2) to avoid a feathered edge (see Figure 1). See Joint Preparation section above for joint width/depth information. To repair a control joint, fill all spalls with CRACKBOND CSR polyurethane and allow to cure. Recut the control joint to remove all filler materials and to reshape the spall repairs.



Blow out and remove all dust, dirt, debris, oil and any other contaminant from the control joint or crack. Use backer rod or kiln dried sand prior to application of adhesive. Allow sufficient depth for joint filler based upon minimum recommended depth of filler. Place mixing nozzle directly over the joint or repair area. Dispense material using full smooth trigger pulls (no short, choppy strokes) and allow material to gravity feed into the crack/joint.

For joints to be shaved, overfill the crack/joint so that material is slightly higher than the face of the concrete slab you are repairing. Allow product to cure for a minimum of 30 minutes at 75 °F (24 °C) then use a sharp floor scraper to shave excess material from top surface. Full cure times are temperature dependent (see Table 3).

TABLE 5: CRACKBOND JF-82 FAST Coverage Chart

Joint Size in. (mm)	Linear Feet per 21.2 fl. oz. Cartridge (Linear Meter per 627 ml Cartridge)	Linear Feet per Gallon (Linear Meter per Liter)
1/8 x 1 (3.18 x 25.40)	25.5 (7.77)	154.0 (12.40)
1/8 x 1-1/4 (3.18 x 31.75)	20.4 (6.22)	123.2 (9.92)
1/8 x 1-1/2 (3.18 x 38.10)	17.0 (5.18)	102.7 (8.26)
1/8 x 1-3/4 (3.18 x 44.45)	14.6 (4.44)	88.0 (7.08)
1/8 x 2 (3.18 x 50.80)	12.8 (3.89)	77.0 (6.20)
3/16 x 3/4 (4.76 x 19.05)	22.7 (6.91)	136.9 (11.02)
3/16 x 1 (4.76 x 25.40)	17.0 (5.18)	102.7 (8.26)
3/16 x 1-1/4 (4.76 x 31.75)	13.6 (4.15)	82.1 (6.61)
3/16 x 1-1/2 (4.76 x 38.10)	11.3 (3.46)	68.4 (5.51)
3/16 x 1-3/4 (4.76 x 44.45)	9.7 (2.96)	58.7 (4.72)
3/16 x 2 (4.76 x 50.80)	8.5 (2.59)	51.3 (4.13)
1/4 x 1 (6.35 x 25.40)	12.8 (3.89)	77.0 (6.20)
1/4 x 1-1/4 (6.35 x 31.75)	10.2 (3.11)	61.6 (4.96)
1/4 x 1-1/2 (6.35 x 38.10)	8.5 (2.59)	51.3 (4.13)
1/4 x 1-3/4 (6.35 x 44.45)	7.3 (2.22)	44.0 (3.54)
1/4 x 2 (6.35 x 50.80)	6.4 (1.94)	38.5 (3.10)
1/2 x 1 (12.70 x 25.40)	6.4 (1.94)	38.5 (3.10)
1/2 x 1-1/4 (12.70 x 31.75)	5.1 (1.55)	30.8 (2.48)
1/2 x 1-1/2 (12.70 x 38.10)	4.3 (1.30)	25.7 (2.07)
1/2 x 1-3/4 (12.70 x 44.45)	3.6 (1.11)	22.0 (1.77)
1/2 x 2 (12.70 x 50.80)	3.2 (0.97)	19.2 (1.55)
3/4 x 1 (19.05 x 25.40)	4.3 (1.30)	25.7 (2.07)
3/4 x 1-1/4 (19.05 x 31.75)	3.4 (1.04)	20.5 (1.65)
3/4 x 1-1/2 (19.05 x 38.10)	2.8 (0.86)	17.1 (1.38)
3/4 x 1-3/4 (19.05 x 44.45)	2.4 (0.74)	14.7 (1.18)
3/4 x 2 (19.05 x 50.80)	2.1 (0.65)	12.8 (1.03)
This is a general table for estimating product usage.		