

**TECHNICAL DATA SHEET**

**DESCRIPTION**

Sure Fil J52 is a 100% solids, two component, low shrink, moisture tolerant joint filler and crack repair material.

**USE**

Sure Fil J52 is used to fill joints in industrial floors exposed to hard wheeled traffic. Sure Fil J52 is useful for contraction/construction joints that are cut or formed. Sure Fil J52 may also be used for the repair of damaged or spalled cracks.

**FEATURES**

- Pourable consistency
- V.O.C. compliant
- 1:1 mix ratio
- Self-priming
- Moisture insensitive
- Allows moderate joint movement
- Does not weld slab joints together
- Does not embrittle with age
- Meets U.S.D.A. requirements for incidental food contact

**PROPERTIES**

Mix Ratio: 1:1, Part A to Part B by volume  
 Color (mixed): Light Gray  
 Gel Time 60 gm mass: 15 minutes  
 Viscosity: Self-leveling  
 Tack free time: 3-4 hours @ 75°F (24°C)  
 Initial cure: 8 hours @ 73°F (23°C)  
 Final cure: 48 hours  
 Shore A Hardness (ASTM D2240): 85 ± 5  
 Shore D (ASTM D2240): 40  
 Compressive Modulus (ASTM D695): 2500 psi (17.2 MPa)  
 Tensile strength (ASTM D638): 700 psi (4.5 MPa)  
 Ultimate elongation (ASTM D638): 71%  
 Tear resistance (ASTM D624): 30lb./in. (5,358 gm/cm)  
 Service temperature: 30°F to 180°F (-1° to 82°C)  
 Bond cohesion after water immersion: No failure after 25% total movement (Federal Specification TT-S-00227E)  
 Artificial Weathering (ASTM G-23, Type D): 10-15% elastomeric property change @ 1000 hrs.  
 Modulus of Elasticity (ASTM D695): <80,000psi (551.70 MPa)  
 Shrinkage (ASTM C883): 0.002  
 Absorption (ASTM D570): 0.30%

**VOC**

Sure Fil J52 has a VOC content of 0 g/L. Compliant with all Canadian and U.S. VOC regulations including Federal EPA, OTC, LADCO, SCAQMD & CARB.

**Estimating Guide**

Lineal Feet / Gallon of Mixed J52

Width Inches (cm)	1/8 (.3 cm)	1/4 (.6 cm)	3/8 (1 cm)	1/2 (1.3 cm)	5/8 (1.6 cm)	3/4 (1.9 cm)	1 (2.5 cm)
1/2 (1.3 cm)	308.0	154.0	102.7	77.0	61.6	51.3	38.5
3/4 (1.9 cm)	205.3	102.7	68.4	51.3	41.1	34.2	25.7
1 (2.5 cm)	154.0	77.0	51.3	38.5	30.8	25.7	19.3
1-1/4 (3.2 cm)	123.2	61.6	41.1	30.8	24.6	20.5	15.4
1-1/2 (3.8 cm)	102.7	51.3	34.2	25.7	20.5	17.1	12.8
1-3/4 (4.4 cm)	88.0	44.0	29.3	22.0	17.6	14.7	11.0
2 (5.1 cm)	77.0	38.5	25.7	19.3	15.4	12.8	9.6
2-1/2 (6.3 cm)	61.6	30.8	20.5	14.7	12.3	10.3	7.7
3 (7.6 cm)	51.3	25.7	17.6	12.8	10.3	8.6	6.4

**Packaging**

PRODUCT CODE	PACKAGE	SIZE	
		Gallons	Liters
143340	Cartridge	0.16	600 ml
143341	Unit	1	3.8
307678	Unit	2	7.6
307679	Unit	10	37.9

**STORAGE**

The material should be stored at 40°-90°F (5°-32°C). Shelf life of properly stored, unopened containers is 24 months and 12 months for cartridges.

**Surface Preparation:**

Joints to be filled must be clean, free of curing compounds and structurally sound. Remove all oil, grease, dirt, laitance, curing compounds and any other foreign material that may cause a problem with bond. Re-sawing, abrasive blast cleaning and mechanical removal methods are recommended. Use clean, oil free, compressed air to blow out any remaining dust or debris prior to installation. In older concrete, the old joints must be routed out to remove old material and widen, if necessary.

**TECHNICAL DATA SHEET****Mixing:**

Condition material to 65°- 85°F (18°- 29°C) before using. Premix each component separately, then mix one volume of Part A and one volume of Part B for three minutes with a low speed (<450 rpm) drill using a Jiffy mixer or paddle.

Make certain the color is homogenous with no streaking in the product before application. Mix only as much material as can be used within the pot life. Air, material, and surface temperatures must be a minimum of 40°F (5°C) prior to mixing or installation.

**Placement:**

Backing material should preferably be compressible, with installed compression being approximately 50% of its original width. Fine clean sand may be used to close off small shrinkage cracks in the bottom of joints prior to placement of Sure Fil J52.

In accord with ACI 302, semi-rigid epoxy fillers should be installed full depth in saw cut joints and at least 1 in. (2.5 cm) deep in formed joints. For best results apply material between 65-85°F (18-29°C). Sure Fil J52 can be installed with a caulking gun or poured into the joint from a suitable container. Two passes may be required, as pourable leveling materials will settle in the joint. The second pass must be made within 12 hours at 75°F (24°C). Ultimately, the filled joint should be flush with the floor surface. Another installation technique is to overfill the joint, then once tack free, cut the Sure Fil J52 flush with a razor knife. A heat gun can facilitate cutting Sure Fil J52, if it has hardened. Avoid overheating the cured Sure Fil J52.

Per ACI 302, It is advisable to defer joint filling and sealing as long as possible to minimize the effects of shrinkage-related joint opening on the filler or sealant. If concrete shrinkage-related openings do occur, Sure Fil J52 can be reapplied.

**CLEAN UP**

Tools and Equipment: Clean before the epoxy sets. Use xylene or Dayton Superior Citrus Cleaner J48.

**LIMITATIONS****FOR PROFESSIONAL USE ONLY**

Not intended for use in expansion/contraction joints or cracks that exhibit significant movement.

Sure Fil J52 should not be installed on new concrete floors until maximum concrete shrinkage has occurred. ACI 302.1R Paragraph 4.10 recommends a minimum of 3 months for all semi-rigid epoxies. The longer the time period allowed, for curing of the concrete prior to installation of Sure Fil J52, the better the performance.

Do not thin Sure Fil J52 with any solvents.

Surface, ambient air, and material temperatures must be 40°F (5°C) or above. Do not expose stored or uncured product to cold or hot temperatures below 35°F (2°C), or above 90°F (32°C) for any length of time.

Sure Fil J52 should not be installed until the building is under permanent temperature control.

Note: High temperatures will accelerate the setting time, and cool temperatures will slow down the setting time. As a general rule, gel time will be cut in half for each 10°-15° increase in temperatures above 75°F (24°C).

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.

**PRECAUTIONS****READ SDS PRIOR TO USING PRODUCT**

- Component A – Irritant
- Component B – Corrosive
- Product is a strong sensitizer
- Use with adequate ventilation
- Wear protective clothing, gloves and eye protection (goggles, safety glasses and/or face shield)
- Keep out of the reach of children
- Do not take internally
- In case of ingestion, seek medical help immediately
- May cause skin irritation upon contact, especially prolonged or repeated. If skin contact occurs, wash immediately with soap and water and seek medical help as needed.
- If eye contact occurs, flush immediately with clean water and seek medical help as needed
- Dispose of waste material in accordance with federal, state and local requirements
- Cured epoxy resins are innocuous

**TECHNICAL DATA SHEET****MANUFACTURER**

Dayton Superior Corporation  
1125 Byers Road  
Miamisburg, OH 45342  
Customer Service: 888-977-9600  
Technical Services: 877-266-7732  
Website: [www.daytonsuperior.com](http://www.daytonsuperior.com)

**WARRANTY**

Dayton Superior Corporation ("Dayton") 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 Dayton, the product is free of manufacturing defects and conforms to Dayton's product properties in force on the date of acceptance by Dayton of the order. Dayton shall only be liable under this warranty if the product has been applied, used, and stored in accordance with Dayton's instructions, especially surface preparation and installation, in force on the date of acceptance by Dayton of the order. The purchaser must examine the product when received and promptly notify Dayton in writing of any non-conformity before the product is used and no later than 30 days after such non-conformity is first discovered. If Dayton, 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 Dayton officer is authorized to modify this warranty. The information in this data sheet supersedes all other sales information received by the customer during the sales process. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES, 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.

Dayton 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, its obligations under any contract for sale of product, even if Dayton 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 contract, 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.