

## SELECTION & SPECIFICATION DATA

<b>Generic Type</b>	Modified polyurea
<b>Description</b>	<p><b>Reactamine Joint Seal FC</b> is a 2-component 100% solids, polyurea-based joint sealant that is self-leveling and cures in approximately 30 minutes. It works equally well with asphalt and concrete and protects interior horizontal concrete expansion and control joints from spalling, chipping and breakdown.</p> <p>This product can be applied at temperatures ranging from 0° to 150°F (-18° to 65°C) and possess excellent chemical resistance, water resistance and thermal stability at both high and low temperatures.</p>
<b>Features</b>	<ul style="list-style-type: none"> <li>• 100% solids; zero VOC</li> <li>• Fast cure times</li> <li>• USDA compliant for non-direct food contact</li> <li>• Has a functional temperature range of 0° to 250°F (-18°C to 121°C)</li> <li>• Excellent water resistance, chemical resistance, and thermal stability at high &amp; low temperatures</li> <li>• Works well with asphalt or concrete</li> </ul>
<b>Color</b>	Standard colors: Unpigmented (0000) and Grey (0700)
<b>Recommended Thickness</b>	This product is a self-leveling joint seal to fill joints from 1/8" to 1" wide and up to 3" in depth. A typical joint of 1/2" wide by 1/2" deep will fill 77 lineal feet per gallon.
<b>Solids Content</b>	By Volume 100%
<b>VOC Values</b>	<b>As Supplied</b> : 0.00
<b>Topcoats</b>	Acrylics, Epoxies, Polyureas

## SUBSTRATES & SURFACE PREPARATION

<b>General</b>	The product adheres well to sound concrete substrates. All surfaces should be free of moisture, loose particles, and debris. Products may be applied using plural component spray equipment, hand mixing, or plural component cartridges. When hand mixing care must be taken to mix and pour quickly as product is designed to gel quickly.
<b>Concrete</b>	<p><b>New Concrete:</b> Saw cut concrete at least one inch deep and vacuum joint for any loose dust and debris. Backer rods may be used to prevent excessive material loss through "sinkers".</p> <p><b>Aged Concrete:</b> Remove old or existing joint materials and make fresh saw cuts to freshly opened concrete to receive joint seal material. Then follow procedures as for new concrete.</p>

## PERFORMANCE DATA

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

Test Method	System	Results
Abrasion (ASTM D4060) CS17 wheel; 1000 gm weight; 1000 cycles	Reactamine Joint Seal	40 mg
Adhesion over Concrete (ASTM D4541)	Reactamine Joint Seal	400 psi (concrete failure)
Elongation ((ASTM D412)	Reactamine Joint Seal	400%
Flexibility (ASTM 1737)	Reactamine Joint Seal	Pass (1/8" Mandrel)
Hardness (ASTM D2240)	Reactamine Joint Seal	Shore A: 85
Tear Strength (ASTM D624)	Reactamine Joint Seal	450 pli
Tensile Strength (ASTM D412)	Reactamine Joint Seal	1500 psi

# Reactamine<sup>®</sup> Joint Seal FC

## PRODUCT DATA SHEET



### MIXING & THINNING

**Mixing** | Thoroughly mix in a 1:2 ratio by volume.

**Gel Time** | 4-5 Minutes

### APPLICATION PROCEDURES

**General** | Apply mixed material into joint to the full depth and slightly overfill. Allow to cure for a minimum of 15 minutes before shaving level with concrete.

### APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	50°F (10°C)	0°F (-18°C)	0°F (-18°C)	0%
Maximum	170°F (77°C)	150°F (66°C)	120°F (49°C)	85%

Industry standards are for substrate temperatures to be 5°F (3°C) above the dew point. Caution: This product is moisture sensitive and needs to be protected from high humidity, dew and direct moisture contact until cured. Application and/or curing in humidity above maximum, or exposure to moisture from rain or dew may result in a loss of gloss, micro bubbling, and/or blistering of the product.

### CURING SCHEDULE

Surface Temp.	Dry to Receive Light Traffic
35°F (2°C)	75 Minutes
50°F (10°C)	45 Minutes
75°F (24°C)	30 Minutes

### CLEANUP & SAFETY

**Cleanup** | Contact Carboline Technical Service for cleaning recommendations. In case of spillage, absorb and dispose in accordance with local applicable regulations.

**Safety** | Read and follow all caution statements on this product data sheet and on the SDS for this product. Employ normal workmanlike safety precautions. Persons should wear proper personnel protection equipment.

**Caution** | This product does not contain flammable solvents; however, clean-up solvents that may be used do contain flammable solvents. Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workmen should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

### PACKAGING, HANDLING & STORAGE

**Packaging** | 9.5 gal and 106 gal kits  
Dual-cartridge packs are also available (12 dual sets per carton). Cartridge size is 300 ml x 150 ml.

**Shelf Life** | 12 months at 75°F (24°C)

**Shipping Weight (Approximate)** | 9.3 lbs/gal (4.2 kg/gal)

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## PACKAGING, HANDLING & STORAGE

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**Flash Point (Setaflash)** | Part A: 400°F (204°C)  
Part B: >200°F (>93°C)

## WARRANTY

To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to change without prior notice. User must contact Carboline Company to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Carboline quality control. We assume no responsibility for coverage, performance, injuries or damages resulting from use. Carbolines sole obligation, if any, is to replace or refund the purchase price of the Carboline product(s) proven to be defective, at Carbolines option. Carboline shall not be liable for any loss or damage. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY CARBOLINE, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. All of the trademarks referenced above are the property of Carboline International Corporation unless otherwise indicated.