

SELECTION & SPECIFICATION DATA

Generic Type	Modified polyurea
Description	<p>Reactamine Joint Seal FC 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 -18° to 65°C and possesses excellent chemical resistance, water resistance and thermal stability at both high and low temperatures.</p>
Features	<ul style="list-style-type: none"> • 100% solids; zero VOC • Fast cure times • USDA compliant for non-direct food contact • Has a functional temperature range of -18°C to 121°C • Excellent water resistance, chemical resistance, and thermal stability at high & low temperatures • Works well with asphalt or concrete
Colour	Grey (0700)
Recommended Thickness	This product is a self-leveling joint seal to fill joints from 3 mm (1/8") to 25 mm (1") wide and up to 75 mm (3") in depth. A 450 ml pack would typically fill 18 lineal metres of 5mm x 5mm joint, or 9 metres of 5mm wide by 10 mm deep joint.
Solids Content	By Volume 100%
VOC Values	As Supplied 0
Topcoats	Acrylics, Epoxies, Polyureas & Hybrid Polyurethane

SUBSTRATES & SURFACE PREPARATION

General	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.
Concrete	<p>New Concrete: Saw cut concrete at least 25 mm deep and vacuum joint for any loose dust and debris. Backer rods may be used to prevent excessive material loss through "sinkers".</p> <p>Aged Concrete: 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

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 Joint Seal FC

PRODUCT DATA SHEET



MIXING & THINNING

Gel Time | 4-5 Minutes

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

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	10°C (50°F)	-17.78°C (-0°F)	-17.78°C (-0°F)	0%
Maximum	76.67°C (170°F)	65.56°C (150°F)	48.89°C (120°F)	85%

Industry standards are for substrate temperatures to be 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
1.67°C (35°F)	75 Minutes
10°C (50°F)	45 Minutes
23.89°C (75°F)	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 MSDS for this product. Employ normal workmanlike safety precautions. Persons should wear proper personnel protection equipment.

Caution | This product contains isocyanate. When sprayed may be harmful by inhalation - do not breath vapour or spray. Wear suitable clothing, gloves, eye and face protection, including suitable breathing protection such as an air supplied respirator or hood.
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 local electrical 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

Shipping Weight (Approximate) | Carton of 12 Dual Cartridge Packs: 6 kg

Flash Point (Setaflash) | Part A: 204°C
Part B: >>93°C

PACKAGING, HANDLING & STORAGE

Packaging | Dual-cartridge packs - 5.4 litres gross (12 dual sets per carton)

WARRANTY

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