

## Selection & Specification Data

<b>Generic Type</b>	Modified polyurea
<b>Description</b>	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. 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.
<b>Features</b>	<ul style="list-style-type: none"> <li>• 100% solids; zero VOC</li> <li>• Fast cure times</li> <li>• Has a service temperature range of -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>Colour</b>	Gray (0700)
<b>Topcoats</b>	Polyurethanes, polyurethane hybrids, polyureas and epoxies
<b>Dry Film Thickness</b>	This product is a self-leveling joint seal to fill horizontal joints from 3mm to 25mm wide and up to 75mm in depth.
<b>Solids Content</b>	100% by volume
<b>Theoretical Coverage Rate</b>	For a typical joint of 12mm wide by 12mm deep, 1 litre of mix will fill approx. 6.9 lineal metres. ~3. 1 metres, 12x12mm bead per 450 ml kit
<b>Mix Ratio</b>	1 : 2 by volume (Part A : Part B)
<b>VOC Values</b>	0% as supplied
<b>Dry Temp. Resistance</b>	121°C

## 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. Product normally applied using plural component cartridges; however bulk material may be applied using plural component spray equipment or hand mixing. When hand mixing care must be taken to mix and pour quickly as product is designed to gel quickly.
<b>Concrete</b>	<p><u>New Concrete:</u> Saw cut concrete at least 25mm deep and vacuum joint for any loose dust and debris. Backer rods may be used to prevent excessive material loss through "sinkers".</p> <p><u>Aged Concrete:</u> 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, 1kg load; 1000 cycles	Reactamine Joint Seal FC	40 mg loss
Adhesion to Concrete ASTM D4541		2.76 MPa (400 psi)
Elongation ASTM D412		400%
Flexibility ASTM D1737		Pass 3.2mm Mandrel
Hardness ASTM D2240		Shore A: 85
Tear Strength ASTM D624		80.3 kg/cm (450 pli)
Tensile Strength ASTM D412		10.34 MPa (1500 psi)

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

## 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.

## Mixing & Thinning

**Mixing** Thoroughly mix in a 1:2 ratio by volume. (Part A : Part B)

**Gel Time** 4 - 5 minutes

## Application Conditions

Condition	Material	Surface	Ambient	Humidity
Minimum	10°C	-18°C	-18°C	0%
Maximum	77°C	66°C	49°C	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. & 50% Relative Humidity	Dry to Receive Light Traffic
2°C	75 minutes
10°C	45 minutes
24°C	30 minutes

## Cleanup & Safety

**Cleanup** 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 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

**Pack Sizes** 450 ml Dual Cartridge Kits  
(150 ml Part A : 300 ml Part B)  
6 Dual Cartridge Kits per carton

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

**Storage** Store under cover in cool dry conditions

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