

# Crack and Joint Sealants

## Description

CIM is a high solids, cold liquid applied, two-component polyurethane elastomer. The cured CIM forms a chemically resistant and flexible material with strong adhesion to concrete, asphalt and other surfaces. It is ideal for use as a joint sealant in a broad range of applications.

CIM 1000 and 1061 are resistant to fuel, oil, and many other liquids and chemicals in a variety of conditions. CIM is a high performance material that provides long term performance.

CIM is especially well suited for applications requiring a tough sealant, such as tanks, containment basins, lagoons, reservoirs, and airport runways. CIM is also approved for potable water, which makes it suitable for use in reservoirs and water storage tanks. CIM is fast curing and may often be placed in service within two hours, depending on job requirements and environmental conditions.

The greatest demand on joint sealants is movement caused by thermal expansion and contraction. The elastomeric, rubber-like consistency of the cured CIM provides the extra capacity to accommodate joint movement even in extreme temperatures. CIM remains flexible, unlike hot applied asphalt that become less flexible at low temperatures.

## Typical Uses Sealing Joints in Concrete

- Concrete tanks and reservoirs
- Airport aprons, ramps and cargo areas
- Roads and runways
- Tennis courts and parking decks
- Water reservoirs
- Pre-fab walls and roofs
- Sealing dissimilar materials
- Bolted tanks
- Asphalt lagoons



*Using CIM to seal cracks and joints is a cost effective alternative to a complete lining.*

## CIM manufactures materials that meet the requirements of:

- ANSI/NSF 61
- ASTM C-836
- ASTM D-412
- ASTM D-1850
- ASTM E96, Method E
- SS-S-200D

## Availability, Cost and Technical Assistance

CIM waterproofing materials are available worldwide.  
Toll Free: 1-800-543-3458  
Telephone: +1-603-924-9481  
Email: [information@cimind.com](mailto:information@cimind.com)  
Please visit our website [www.cimindustries.com](http://www.cimindustries.com) for product literature, MSDS's and application instructions.

## Warranty

5-year material warranty. Please contact C.I.M. Industries Inc. for availability of extended warranties.



**Keeping Liquids Where They Belong**

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[www.cimindustries.com](http://www.cimindustries.com)  
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CIM products are used at Miramar NAS, home of the Top Gun School, as a joint sealant in concrete. Joints or spalls repaired with CIM are tough enough to stand up to runway landing zone use while protecting concrete and asphalt from further damage.

### Joint Design Considerations

**Width** - Joints are placed at intervals designed to accommodate expansion and contraction. The proper width of each joint depends on the amount of expected movement. See *ACI 504R Guide to Sealing Joints in Concrete Structures*. CIM will accept continual cyclic movements that in practice are rarely evenly distributed between the existing joints. To ensure that the sealant works, the joints should be designed in accordance with normal engineering practices.

**Depth** - Joints should be constructed to minimize the occurrence of sealant material protruding from the surface of the concrete. This may mean recessing the level of the sealant 3-6 mm (1/8"-1/4") below the top surface, depending on the temperatures prevailing at the time of application. The width/depth ratio of the CIM should be at least 2:1 and the CIM should have maximum depth of 1/2".

### Specifications and Site Instructions

- Joint surfaces must be clean, dry and free of all debris. Remove all dust and laitance by sand blasting, grinding or wire brushing. The prepared joint surfaces should be blown out with dry, oil-free air. Refer to CIM Instruction Guides for detailed surface installation instructions.

- Apply CIM when joint is close to its annual mean temperature.
- Apply CIM in accordance with CIM joint details.

### Typical Properties

#### CIM 1000 Standard Grade

Tensile Strength	900 psi
Typical Movement Accommodations	25%
Extension to Break	400%
Tear Strength	150 lbs./in.
Softening Point, Ring & Ball	Above 325°F
Brittleness Temperature	Below -60°F
Hardness	Shore A 60
Permeability to Water Vapor, Perms	0.03
Adhesion to Concrete	350 psi
Set Time to Polyethylene Film	Standard Grade, 4 hrs.
Pot Life at 77°F/25°C	30 minutes

### Coverage Rates

#### Theoretical Coverage

27 sq ft per gallon at 60 wet mils

#### 5 gal units

CIM 800, CIM 1000 and CIM 1061 = 135 sq ft

#### 4.5 gal units

CIM 1000 Trowel Grade = 121 sq ft

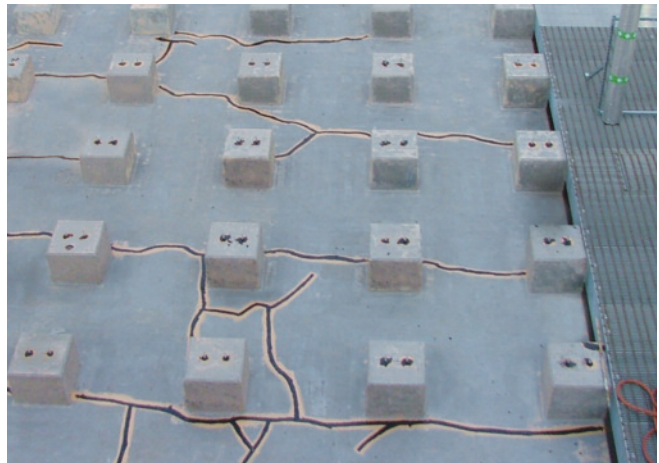
#### 1 gallon kits (contains .8 mixed gallons)

CIM 1061 and CIM 1000 Trowel Grade = 21 sq ft

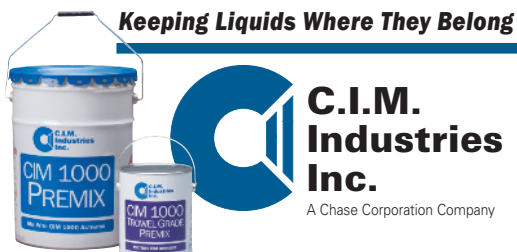
#### Dual Cartridges (850 ml cartridges)

CIM 1000 Trowel Grade = 4 sq ft

*The coverage rate above do not account for waste or application over irregular surfaces. See CIM Coverage Charts for additional information. Most contractors use 20 sq ft per gallon for concrete or a 15%-20% waste factor.*



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