

ROADWELD™

High Performance
Cold Pour Crack Sealant

A very high solids, waterborne, pourable or extrudable, medium density, thermoset elastomer which possesses aggressive surface adhesion properties for bond resistant substrates. Available in light gray or black, and exhibiting, supple elasticity with a very low modulus at 100% elongation ROADWELD is ideal for hard-to-seal joints and cracks in rigid, traffic heavy substrates such as roads and sidewalks.

FINALLY

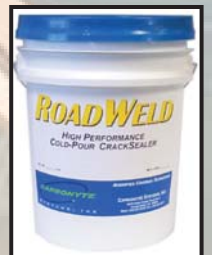
"A HIGH-QUALITY ALTERNATIVE TO HOT MELT CRACKFILLERS"
(makes all other cold-pours obsolete)

- Cold-applied
- Truly pourable
- This system seals as well as fills
- Minimum shrinkage due to Xerithane™ Technology
- Stays pliable in cold weather
- Tenacious adhesion to crack side walls
- Doesn't track in warm weather
- Smaller crews to apply
- No routing required
- Less equipment needed to apply
- May apply in damp or cold conditions
- No hot-kettle liability exposure



Aerospace Polymer Science Breakthrough

Sacramento, Ca. -- Carbonyte Systems, Inc. announces an Emulsified Cold-Applied, Asphalt Filled Rubber Crackfiller and Cracksealer system based on the Carbonyte Process™. The Carbonyte Process™ is a technology derived from a decade of vigorous polymer science research and team development within the Lockheed Martin Missile and Space Company. This process utilizes nano ceramics and ionized minerals which are selectively introduced to create a totally new concept in asphalt maintenance product design. The Carbonyte Process™, in conjunction with the Xerithane technology produces an asphalt-filled thermoplastic elastomer. Modifying the molecular bonds within the asphalt emulsion and mixture substantially improves the asphalt's ductility, raises it's softening point, increases adhesion to mineral surfaces, and renders the finished product insoluble.



TECHNICAL DATA SHEET

ROADWELD

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Available in 5 and 55 gallon containers; and bulk.

ADVANTAGES:

- No-asphalt, elastomeric binder polymer, thoroughly time tested, worldwide, in harsh, weather-exposed environments for over thirty years; without service interruptions.
- High tack and wet out assures permanent bond to irregular, damp substrates.
- Viscosity may be easily adjusted from a caulk or injection medium, to pourable quality by stirring small quantities of water into the **ROADWELD**.
- Thermoset properties prevents hot weather creep.
- Remains well bonded and supple at sub-freezing temperatures to assure year round sealing performance.
- Sag resistant in larger than normal gaps.
- Superior sealing with watertight bond to substrate by cured multi-polymer structure.
- Persistent cure of thick cross sections improved by high solids SPICE chemistry.
- Pourable but flow resistant texture provides joint depth control without using excess material.
- Odorless and very low VOC minimizes user and applicator impact during installation.
- Reduced product bulk density makes container shipping and handling less expensive and less labor intensive.

TRANSPORTATION

- DOT: Not Regulated

USES:

- As a waterproof caulk, sealant or filler for joints, gaps, cracks, or voids in metal, concrete, asphalt plastic or dry wood substrates. Not recommended for use as a contact adhesive.
- Although the product is paintable, because of its soft, compressible properties, it is not recommended for use where traffic loadings such as hand, foot or tire contact may place a repetitive load directly against the cured cross section.

SHIPPING INFORMATION:

CONTAINER SIZE	UNITS PER PALLET	CUBIC FT PER PALLET	WEIGHT PER PALLET	PALLETS PER 48' TRAILER
5 Gallon Pails	48	57	~ 1800	18
55 Gallon Drums	4	58	~ 1700	20

PHYSICAL PROPERTIES:

Cold Temperature Flexibility	-10 F	1" Mandrel two sec
Water Absorption	< 1%	ASTM D-570
Weight per gallon	9.0 – 10.0 lbs./gallon	ASTM D-1475
Cured Film thickness / gal / 100 s.f.	~ 12 mils (Caulk Grade)	ASTM C-836
Percent Solids	75 - 80	
Biocide Content	NONE	
VOC	< 45 grams / liter	BAAQMD Vol. 3 Lab 22

APPLICATION:

To the extent possible, the surface of all cracks or joints to be filled should be prepared by blowing out all visible loose debris and moisture prior to the use of **ROADWELD**.

Once the gap to be sealed has been cleaned;

Caulk or Injection – Place the proper tip against the center of the void and squeeze the injection apparatus trigger, moving the tip along the void at a rate which allows the sealant, which is in the void, to rise just above the average plane of the surface on either side of the gap. Strike the joint smooth if desirable.

Pour Method – Using a cornucopia or low pressure extrusion equipment, place a one to two inch wide ribbon of **ROADWELD** along roughly the centerline of the void to be filled. Continuous runs of up to thirty feet are common practice. The thickness of the ribbon shall be determined by the width and depth of the void and how much material will fall into the void when scraped therein, i.e. the poured volume of the ribbon per linear foot should be slightly more than that which is expected to fill the void to the specified depth. After the ribbon has been placed, slowly drag the ribbon forward allowing it to form a wave of excess sealant over the void. The drag rate shall be determined by applicator sight and flow rate such that adequate material is placed in the void and struck flush to the substrate on both sides of the void. A "U" shaped, rubber edged squeeze-trowel, usually mounted on the end of a commercial broom handle, is the common means to move the pre-poured ribbon of sealant into the void or gap.

For application in areas which require a minimum disruption of continuous traffic, a light sanding of the **ROADWELD** residue not scraped into the void will allow immediate tire or foot traffic. If; 1) good drying conditions exist and 2) a few minutes of traffic closure are allowed, the surface residue will dry quick enough to not cause tracking by tires, therefore the light sanding for rolling traffic should not be necessary.

DO NOT APPLY IF A THREAT OF SNOW, RAIN, HEAVY DEW OR FREEZING WOULD DISRUPT THE FULL CURE OF THIS PRODUCT.

STORAGE AND HANDLING:

- Keep out of reach of children.
- Do not allow to freeze prior to application.
- Do not thin or mix with any other products.
- Avoid prolonged skin contact.
- Keep containers tightly sealed when not in use.
- Do not take internally. Do not induce vomiting if swallowed--call a physician immediately.
- Store, handle and dispose per MSDS requirements.

Call CSI for sales and technical assistance: (916) 387-0316