

**This issue:**

- What is *ChemCo Systems*?
- Equipment for other things besides cracks
- Faster, better and sometimes cheaper polymer repair products
- What you need to know

## Concrete Repair Questions?

Are you a concrete expert with an epoxy question?

Does your challenge include an unusual substrate, severe environment, settlement or shrinkage cracking, or difficult structural repair?

Do you need a fast, yet conservative answer from a manufacturer whose employee-owners average over 20 years experience in construction epoxy testing, manufacturing, R&D and technical service?

Please contact *ChemCo Systems Inc.* in Redwood City. We make epoxy products and application equipment for crack injection, repair, protection, seismic upgrading, bonding and restoration of concrete, steel, wood and other structural construction materials.

We were founded over 6 years ago by the former management of Adhesive Engineering. Our technical ex-

perts were the original developers of the SCB Process™

*Call us tollfree:  
 800-757-6773  
 Thanks!*

(structural concrete bonding) over 30 years ago and remain active leaders of ASTM, ACI and ICRI technical and specification committees.

We promise to respond promptly to your inquiry. Or read a bit more about us on the web at [www.chemcosystems.com](http://www.chemcosystems.com).

### Equipment News

*Warning! Read the next section only if you have an interest in increasing your productivity.*

We're pleased to announce the availability of two new pump designs on a low cost lease basis for our li-

censed applicators, which now number about 45 in North America. In addition to our best-of-class Model B crack injection pump, we are now offering the **Model C** bulk gel/paste pump and the **Model D** sawcut/joint filler pump.

The Model C is a portable unit for pumping 1:1 ratio high viscosity two component epoxies from 5 gallon pails. It uses 2 synchronized air-driven piston pumps to deliver high volumes of precisely mixed paste for patching, surface sealing, large crack filling, or bolt/dowel/rebar grouting. It allows the contractor a freer choice of gellimes and viscosities without worrying about batch mixing and wasted material. Flexible rubber follower plates clean the pails so your guys can concentrate on the skilled work. Sure beats buying a gazillion cartridges on large jobs—one contractor tells us it is 4 times faster than cartridges!

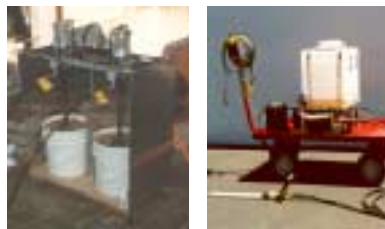
The Model D is a high volume two component gear drive pump for delivering 1:1 ratio self-leveling epoxy and polyurea slot filling liquids for control joints. Also cart mounted, it draws from 2-5 gallon translucent reservoirs and is operated remotely. This is a great tool for large warehouse floor sawcut shrinkage joints, wire loops and other bulk liquid applications. As a productivity aid, it ought to pay for itself in about a half of a job—and it's a great way to work with the very fast polyureas!

## Fresh from our Lab

The boys in the white lab coats are always working on new ideas. Here are several:

### EPOXY HEALER/SEALER

The perfect, safer substitute for high molecular weight methacrylate was developed for Caltrans. They asked for a safer structural sealer for cracked concrete bridge decks. We believe that this is the lowest (75 cps) viscosity 100% reactive solids epoxy



New Model C and D Pumps

available. Its primary application is for consolidation and restoration of horizontal

*(Continued on back)*

*Makers of  
Construction Polymers.*

See us on the web!  
[www.chemcosystems.com](http://www.chemcosystems.com)

### RUMORS

Our corporate policy is to usually let rumors fester by not commenting on them. However, due to the extreme concern expressed by our customers, we will confirm that ChemCo Systems is a 100% U.S. company owned by its employees and has no foreign ownership. *A rare thing these days.*

## Did you know?

*Look here to find answers to all your questions (except for how the universe was created or anything to do with politics).*

- ◇ Can you inject a structural crack while the facility is in use or under loads? The answer depends on the epoxy system. ChemCo's workhorse injection resins can withstand vibration during cure like that which would be encountered on a parking deck or elevated transportation structure. Don't forget to use a surface seal (like StripSeal™) that can take a little flexing.
- ◇ Best time to install a coating? After your guys are really sweaty and tired! After maximum temperature has been achieved—usually after 3 p.m. on a hot summer day. This minimizes blistering and microscopic pinholes caused by water vapor evolution from the substrate.
- ◇ Need extreme heat durability in your coating or adhesive? One of our epoxies has a high HDT of 165°F, but we can evaluate the possibility for even greater temperature resistance if you can provide post-cure heat above that of ambient temperature (say 125°F). Mother Nature offers free post-curing in Texas and Florida, but she doesn't help much in Canada.
- ◇ For custom mortar and grout applications, call us and ask for Chris Olson. He'll develop a mix that is optimized for the critical properties needed on your project. If necessary, we can do environmental exposure and strength testing in addition to calculating binder and aggregate volumes in our tech service lab. This service came in handy recently when an amusement park needed an emergency grout recommendation to open a new ride over a weekend.
- ◇ Is your injection resin leaking out the bottom or backside? Inquire about our slump-pumping or paste injection techniques. We'll pass along some of our published articles, too.

## Fresh from the lab (cont'd.)

cracked decks and slabs. It also is an excellent industrial primer for coatings in extreme environments or over moderate surface damage (such as excessive shrinkage cracking). Unlike HMWMs, it doesn't suffer from oxygen inhibited cure, is not classified as combustible, and the odor won't make your employees into mad scientists.

### 1:1 PASTES

Until recently, raw materials were not available to formulate *high performance* structural paste products in 1:1 mix ratios. Taking advantage of some new materials, we're ready to supply all of our bulk pastes in 1:1 ratio mixes—without any performance tradeoffs. All are

available in short or long pot-life versions and varying viscosities. The pastes can be used for doweling, surface sealing and crack injection. They are readily pumped though our Model C directly from a 5-gal. pail and are priced right.

### IMPROVED DA BINDER

For those of you engaged in making good looking industrial floors, our lab guys have improved the clear (and very tough) epoxy binder for decorative aggregate flooring. Although it's only available in one color (extremely clear); 3M, Permacolor and Duraflex will be happy to bag the sand color mix of your choice to be broadcast into the binder.

### POLYUREA CHOICES

What's your speed? We have fast ones that the semiconductor plants use to seal floor penetrations for new utility connections—their need is to re-open quickly. With low self-leveling viscosities, these flexible ambient temperature cure elastomers will harden in less than an hour or as long as several hours depending on the product selected. They work well in the cold. Other uses include sawcut joint and crack fillers, repair for sprayed-on polyurea membranes, joint nosing repair binders and as a liquid applied polyurea coating where hot spraying isn't practical. Our new Model D meters

and applies these products very efficiently on large slot-filling projects. They are easily trimmed with a knife for perfect flatness.

### FINE PRIMERS

It's been brought to our attention that former state-of-the-art primers are often no longer available because of their solvent content, odor, VOC regulations and flammability. If this situation is causing you flexible membrane installers heartburn, give us a call. We have a several low odor, low viscosity, fluid-applied 100% solids epoxy primers. They offer great substrate adhesion and a vapor barrier for elastomeric toppings. We also have a water-based epoxy emulsion primer, which offers latitude when high application temperatures are expected. All can be rolled or sprayed easily in 5 mil coats.