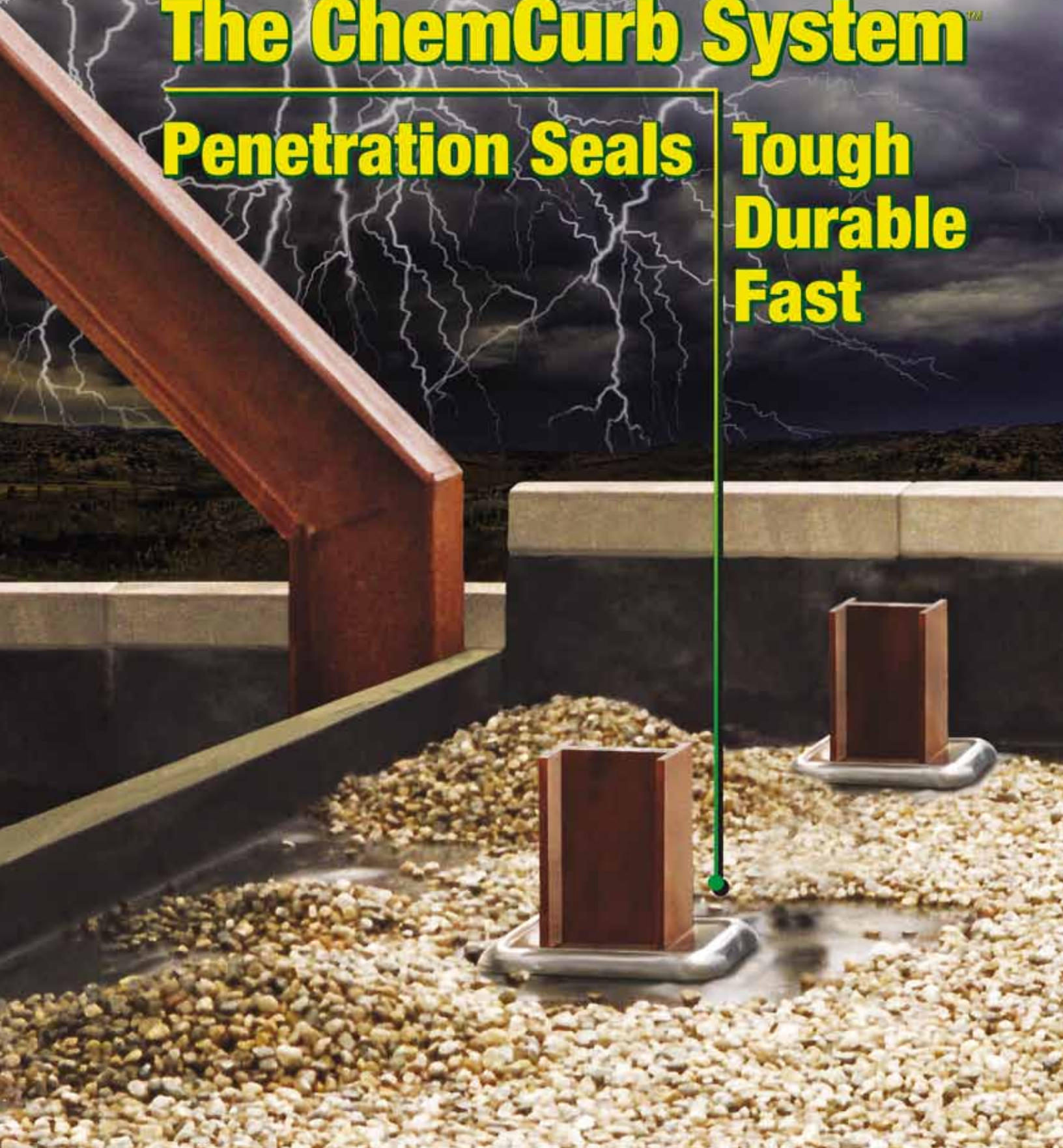


**CHEM LINK**

# **The ChemCurb System™**

**Penetration Seals**

**Tough  
Durable  
Fast**





**Cracked Pitchpan**



**Shrunk "Bird Bath" Pitchpan**



**Ponding Water**



**Excessive Roof Loading**

## **Building Owners: Protect your investment.**

**The most hostile conditions in the building envelope are found on low-slope roofs.**

Commercial roofs are subject to extreme heat load, oxidation and burning UV radiation—and air pollution adds to the damage.

Rain, snow and ice also do their share of damage and are often followed by the ultimate problem, ponding water.

Water, sun and dirt provide the conditions for biological attack from algae, grass and even trees where you would least expect it. Add to this a cocktail of acid rain and airborne chemicals to cause further degradation of roofing materials.

The proliferation of equipment, utility lines, outdoor lighting, machinery screens, air conditioning units and now solar panels adds to the burden on low slope roofs, increasing the number of penetrations and points of vulnerability.

The weight of equipment, pipes, and ponding water leads to vertical movement of the roof itself placing shear forces on roof penetrations.

The result is leaks, which lead to damage, inconvenience and significant expense, undermining the whole purpose of installing a new roof.

As a building owner or facilities manager, you may not look at your roof until something goes wrong. When something does go wrong, it is usually at a point where pipes, conduit, or structural steel enter the building. These penetration points can make or break an otherwise good roof and are the number one cause of roof leaks.

**Once you've paid for a new roof, why pay for it a second time by having to fix recurring leaks?**

The most common method of sealing roof penetrations is by installing pitchpans with metal rain caps to "seal" the penetration. Pitchpans often corrode and asphalt cut-back



**ChemCurbs can eliminate the number one cause of roof leaks.**

Properly Installed **ChemCurb** Penetration Seals

fillers shrink and then leak, allowing water to penetrate and enter the building. These pitchpans are the weakest part of your roof.

**The ChemCurb System turns the weakest part of your roof into the strongest.**

The **ChemCurb System** was designed to replace sheet metal pitchpans and rain caps, relying instead on a permanent rubber penetration seal. Pitchpans seldom survive more than three years without repairs or replacement. **ChemCurb** components are guaranteed for ten years, but typically last much longer.

*A twenty-year warranty is available on warranted and inspected roof systems.*

**ChemCurbs** consist of tough, polyester forms that are bonded to the roof around the penetration, creating a cavity which is then filled with non-shrinking rubber sealant. A tight, unified bond is formed, which integrates with the penetration. Because **ChemCurbs** are modular and come in straight and curved sections, they

can be assembled to fit the size and shape of almost any roof penetration.

**The ChemCurb System is easy to work with... and it's environmentally friendly.**

The cumbersome and labor-intensive pitchpan often takes about 45 minutes to install. **ChemCurbs** install easily in fewer than 15 minutes per penetration.

The **ChemCurb System** is based on GREEN technology: All components are completely safe for use on occupied buildings. **ChemCurbs** contain no solvents, no toxic materials and no carcinogens. There is no risk of fire or explosion, and **ChemCurbs** contain no greenhouse chemicals.



**Make sure your contractor installs the genuine ChemCurb System to protect the investment you've made in your building's roof.**



Short on installation, long on performance



## Roofing contractors...deliver a higher quality job at a competitive price...and eliminate callbacks.

The **ChemCurb System** replaces messy, labor-intensive pitch pans with an engineered, modular seal that permanently encapsulates penetrations with a durable waterproof rubber boot. Chem Link warrants properly installed **ChemCurbs** for ten years.

**ChemCurbs** can be installed in an easy three-step process, significantly reducing labor costs. The system is compatible with virtually every type of low-slope roof from single ply EPDM and PVC to mod bit, TPO and asphalt.

Because of their modular design, **ChemCurbs** offer greater flexibility in application. They can be used on complex jobs involving multiple penetrations and structural components such as H-beams and pipe supports. A smaller series of circular 3-inch, 6-inch and 9-inch **ChemCurbs** called **E-Curbs** are available for thinner penetrations such as single pipes or electronic conduit. In all cases, **ChemCurbs** provide a permanent, watertight seal that saves money in installation and virtually eliminates callbacks, giving you a more value-added finished roof.



## Short on installation, long on performance.

The **ChemCurb System** consists of three essential components: A pre-cast polyester shell, **M-1® Structural Adhesive/Sealant** and a self-leveling pourable sealant.

**ChemCurbs** are impervious to ice, corrosion, UV and ponding water and are available in Round, Straight and Corner shapes. These modular components can be arranged to fit any size and shape of the penetration. **ChemCurbs** bond to the roof's surface using **M-1 Structural Adhesive/Sealant**, which delivers a permanent, waterproof bond. Liquid sealant is then poured to fill the cavity formed by the curbs. Installation takes eight to ten minutes under normal conditions.

**Installation takes about 8-10 minutes under normal conditions.**



1



2



3



4

## Instructions for installing the ChemCurb System:

1. Preparation: It is VERY IMPORTANT to remove all previously applied caulk, mastic, cement, asphalt and other contaminants from penetrations with a wire brush to ensure proper bonding. Brush away all gravel and loose granules.
2. Position the **ChemCurbs** around the penetrations in the desired configuration. Use a marker to trace the perimeter of the **ChemCurbs**, then remove them and set aside.
3. Seal the base of each penetration with Chem Link **M-1 Structural Adhesive/Sealant** by coating the penetrations to three inches above the roofline.
4. Hold a section of **ChemCurb** flat side up, and apply two parallel beads of **M-1** over the entire bottom surface. Tool the **M-1** to a 1/8-inch deep coating. Apply excess **M-1** to the bonding surface at the roofline to fill in and level all gaps and irregularities.



5. Place the coated curb section on the roof surface in the position marked in Step 2, creating a half form. Press down firmly until **M-1** extrudes from the outside edges. Tool **M-1** to a 1/8-inch deep coating. Place the remaining section(s) of curb on the roof surface to complete the form. Press firmly in place until excess adhesive extrudes from the outside edge and scarf joints. Tool the joints smooth. Apply a bead of **M-1** around the outside base of the installed curb, and tool to form a smooth fillet. NOTE: On granulated modified bitumen, tool a thin application of **M-1** 1/2-inch wide, around the exterior base of the installed ChemCurb to seal in granules.
6. Pour the sealer: The **ChemCurb** is now ready to be filled with **1-Part Pourable Sealant™**. (If using **Pro Pack™**, thoroughly mix Parts A & B until uniformly black.) Carefully pour sealer into the **ChemCurb** cavity and tool off to a smooth surface.
7. The sealer is firm within 24 hours under normal conditions.

## The ChemCurb System offers a range of ordering options to fit your needs

You can order ChemCurb System components separately.



Standard **ChemCurbs** are composed of heavy-duty polyester resin and come in White, Grey or Black. They are two inches in height and are available in 5-inch and 7.5-inch i.d. Rounds, 6-inch and 12-inch Straights, and Corners. These components can be configured for square, rectangular, round or oval patterns of varying shapes and sizes, depending on the size and number of penetrations to be sealed. Ten- and twenty-year warranties are available.



**E-Curbs** are narrower and lighter weight than standard curbs and are available in 3-inch, 6-inch and 9-inch interlocking rounds designed with a flange to ensure a water-tight seal. The 3-inch **Mini-Curbs** are designed for smaller penetrations up to one inch in diameter such as HVAC conduit and drains, exterior lighting supports, surveillance cameras, mounts for solar panels and light angle-iron struts or for wiring or cable.

**M-1** is the only adhesive you will need.

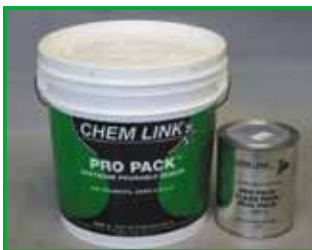


**M-1** is a high-strength structural adhesive/sealant available in 10.1-oz. plastic cartridges. **M-1** adheres to a wide range of roofing materials, forming a tough, elastic waterproof seal after cure. NOTE: For TPO roofs, a Chem Link primer must be used to ensure adhesion.



The **ChemCurb System** offers three types of sealants:

**1-Part** is a pourable, self-leveling polyether sealant that is 100% solids and requires no mixing. It cures with atmospheric moisture to a flexible rubber mass that will not shrink. Available in 28-oz. cartridges or 2-liter pouches.



**Pro Pack™** is a two-part, urethane pourable sealant that is 100% solids and which requires mixing but delivers a much faster cure than **1-Part**. **Pro Pack** is self-leveling, non-shrinking and cures to a flexible, long-lasting urethane seal. Available in one-gallon buckets with hardener.



**DuraSil™ SL** is a one-part, pourable silicone-based sealant designed for use with photovoltaic applications where high dielectric strength, or 400° F “hot pipe” service is needed. Available in 28-oz. cartridges or 2-liter pouches.

## You Can Order ChemCurb Kits that Contain Everything You Need for your Application.



The **Pro Pack ChemCurb Kit** contains two complete 7.5-inch i.d. curbs, two tubes of Gray **M-1** adhesive/sealant, one gallon of **Pro Pack** resin, one container of hardener, a mixing paddle and warranty card.



The 7.5-inch **1-Part™ ChemCurb Kit** contains two complete 7.5-inch i.d. round curbs, two tubes of Gray **M-1** adhesive, two 2-liter pouches of Gray **1-Part** sealant, gloves and warranty card.

The 5-inch **1-Part ChemCurb Kit** contains three complete 5-inch i.d. round curbs, two tubes of Gray **M-1** adhesive, two tubes of Gray **1-Part** sealant, gloves and warranty card.



**E-Curb** Kits include various combinations of curbs and more than enough **1-Part Pourable Sealant** and **M-1** adhesive to complete installation.

NOTE: For TPO roofs, **Chem Link TPO Primer** is included to ensure adhesion.

**Chem Link** contractor support representatives will assist you to ensure that you order the right materials for your job.

## Additional roofing accessories from ChemLink to enhance the quality of your job



**KnuckleHeads™** are lightweight, adjustable pipe supports that are economical and easy to install. **KnuckleHeads** are impervious to water and freeze/thaw damage, and will not rot or deteriorate.

**M-1** Structural Adhesive/Sealant is included for bonding to the roof surface.



## Chem Link—A pioneering green company... Contractor Driven

***Chem Link** is dedicated to providing contractors with safe, high-performance products that have been designed to stand up in the most challenging field conditions.*

Since our beginning in 1990, we have focused our energy on meeting the most pressing needs of the building contractor. We formulate and design with direct knowledge of the toughest challenges the contractor faces, generating products that increase the strength and integrity of the building envelope, extend the life of roofs, and temper the effects of harsh weather cycles, all while ensuring worker safety.

We have been a green company since our first day—all of our internal processes are environmentally friendly, from formulating through production to packaging. **Chem Link** products contain no solvents, are non-toxic, non-flammable and present no hazard to workers, building inhabitants, or the environment. They can be used in confined spaces and in areas with the strictest environmental standards.

Every **Chem Link** product is produced and packaged in the United States at **Chem Link**'s fully integrated production facilities in Schoolcraft, Michigan. **Chem Link** products are designed and modified with continuous feedback from the field. Our products are made for the contractor's hands—they apply easily and efficiently and are formulated to deliver maximum integrity in the final structure. All **Chem Link** products are supported by a proactive technical service program. Every day we work on ways to increase our support to the contractor who dedicates his efforts to quality construction.

*We would like to thank the contractors and consultants who have been so valuable in sharing their needs and experiences to help us continuously improve our product line. **Chem Link** products are the first choice of professionals throughout the U.S. and Canada.*





## Original ChemCurb Installations Are Still Going Strong

More than two million **ChemCurbs** have been sold since the system was introduced in 1995. They prove their worth every day, come rain or shine, snow or ice, low temperatures or high winds. **ChemCurbs** are another field-proven product from **Chem Link**.

More product details are available at [www.chemlinkinc.com](http://www.chemlinkinc.com)

**Your Contractor**

**CHEM LINK**  
Advanced Architectural Products  
*Contractor Driven*  
P.O. Box 9 • Schoolcraft MI • 49087-0009  
353 E. Lyons St • Schoolcraft MI • 49087  
[www.chemlinkinc.com](http://www.chemlinkinc.com)

**Contractor Hot Line**

**800-826-1681**

