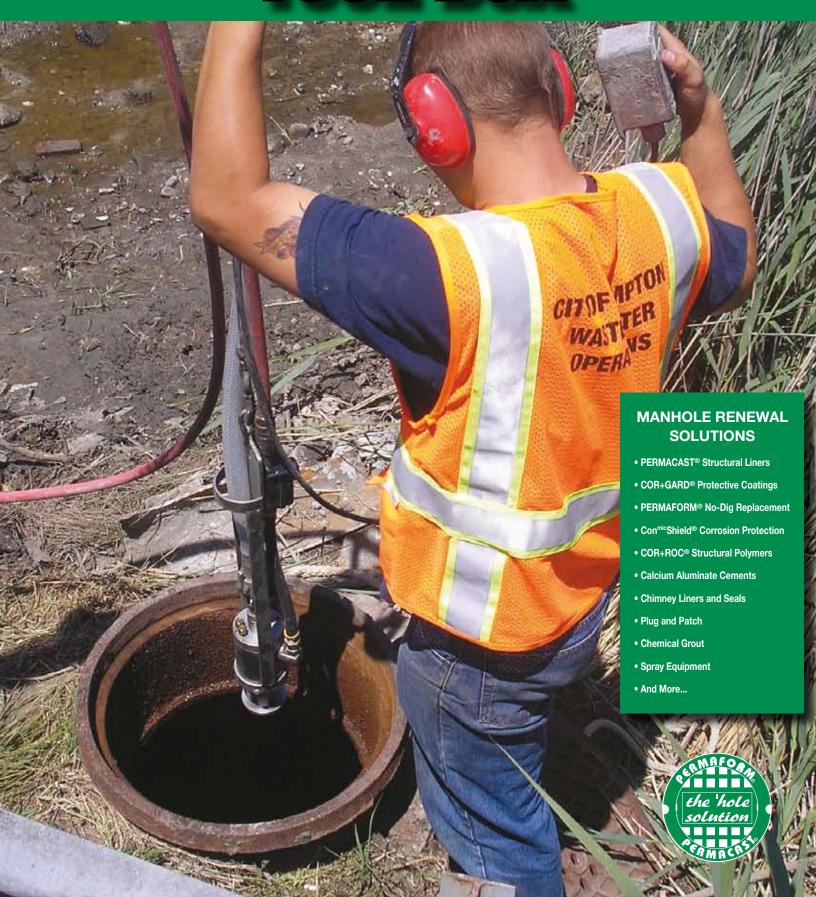
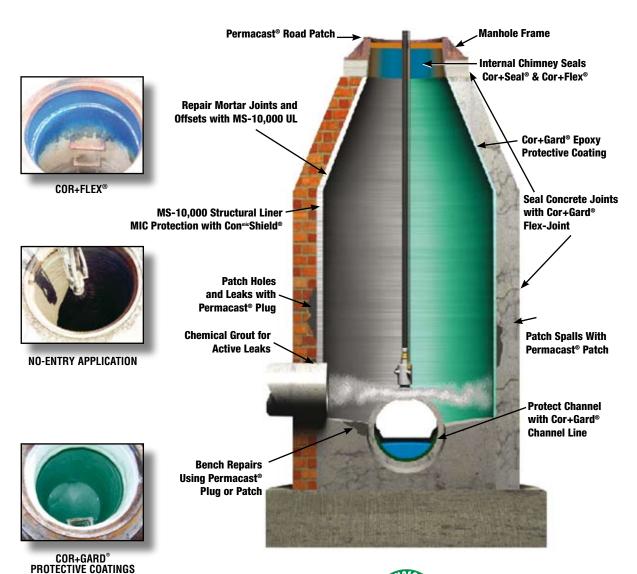
# MANHOLE RENEWAL TOOL BOX



## FACT: 30%-50% OF INFLOW & INFILTRATION ENTERS THROUGH MANHOLES

"Wade & Associates: Study on I&I" 1999

## ... the 'hole Solution!"





HYPER-BLAST SPINWASHER



**NO-DIG REPLACEMENT** 



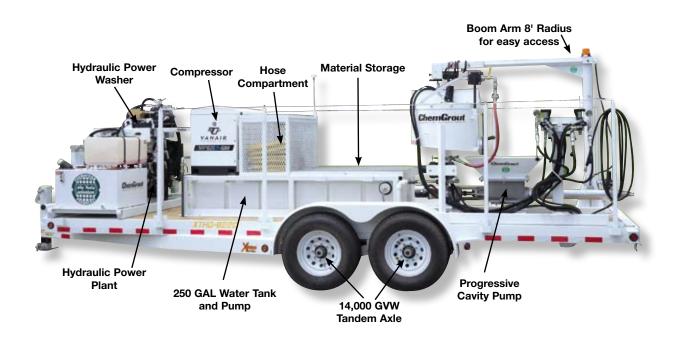
PERMACAST® STRUCTURAL LINER



### **MANHOLE TOOLS FOR EVERY PROBLEM!**

Over 40 years helping cities, engineers and contractors successfully solve manhole problems.

ALL THE TOOLS YOU WILL EVER NEED IN ONE PLACE.



## Disappointed with your current system? Looking for a better solution?

Want all the tools you will ever need in one convenient system?

#### Why Choose PERMACAST®?

- One 3-man crew averages 6-8 manholes per day.
- The SpinCaster—not the man—works in the hole.
- The right tool for every problem in one place.
- Proven products for more than 40 years.
- Multiple plants for quick delivery and savings on freight.
- Technical support 24/7.

## QUICK • SAFE LONG LASTING • EASY

1-800-662-6465 www.permaform.net



Step 1 CLEAN — High pressure spinwasher blasts loose material and debris to bottom blanket. ConMicShield® rinse eliminates residual bacteria from recolonizing behind the new liner.



Step 2 SEAL — Chemical grout injected to stop active infiltration. Flexible seal applied to the chimney-frame joint; flow channel lined, pipe-wall penetrations sealed and the bench rebuilt.



Step 3 APPLY — Bi-directional, centrifugal compaction of high strength liner per ASTM F-2551 with ConmcShield® microbiologically induced corrosion (MIC) protection. Precision placement at any thickness 1/2" to 2".



Step 4 PROTECTED — Apply CS IDENTIFIER curing sealer per ASTM C-1315 containing ConmcShield® for extra MIC protection. For chemical corrosion protection, topcoat with COR+GARD® 100% solids epoxy.

### **WHAT'S IN YOUR TOOLBOX?**

Contact us to evaluate whether the Permacast® System is right for you.



"Using Permacast® for our I&I Reduction program saved us over \$100,000."

- City of Hampton, VA

"We do twice as many manholes every day since we switched to Permacast"."

- Terra Engineering Madison, WI



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