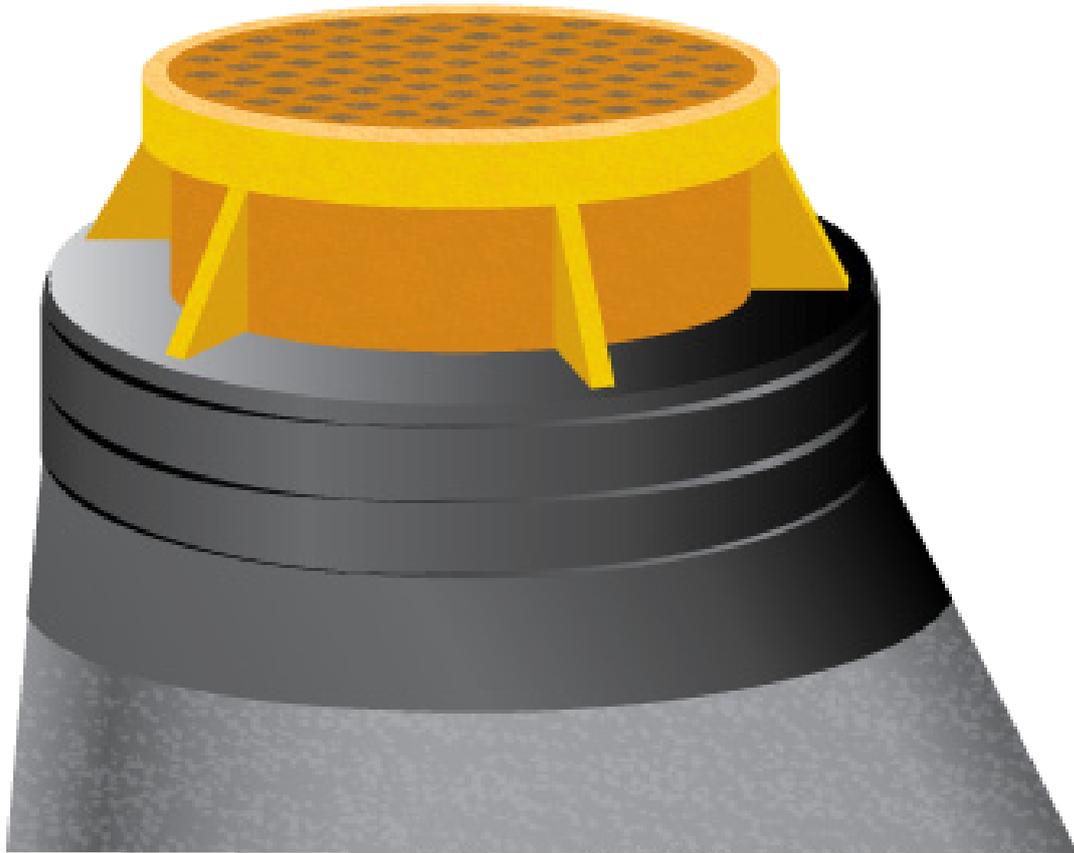


WRAPIDSEAL™

MANHOLE ENCAPSULATION SYSTEM



CCI PIPELINE SYSTEMS
PIPE PROTECTION PRODUCTS



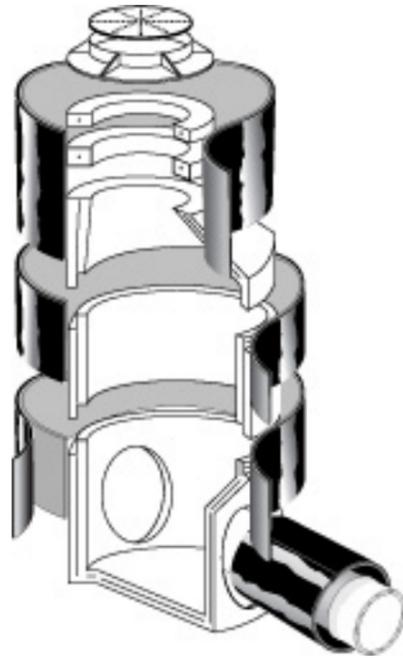
WRAPIDSEAL™ MANHOLE ENCAPSULATION SYSTEM

The *WrapidSeal™ Manhole Encapsulation System* consists of an engineered primer and a unique wraparound heat-shrinkable sleeve designed specifically to seal joints and prevent groundwater from entering a collection system.

WrapidSeal™ can be utilized on both new construction and for rehabilitation of existing manholes. Most rehabilitation applications using WrapidSeal™ typically involve only the top portion of the structure, since cost considerations do not normally permit excavating an entire manhole.

An engineering study involving manhole rehabilitation states that, "partial replacement also is effective where rehabilitation is limited to within the manhole's top 12 to 24 inches."¹

This top portion of the manhole is where WrapidSeal™ performs particularly well, due to its unique ability to conform, seal, accommodate movement, and provide structural integrity.



Excellent soil stress resistance after 7 freeze-thaw cycles.



High expansion backing conforms and recovers to irregular structures.

FEATURES & BENEFITS

- Heat Activated, high shrink membrane
Torch applied, shrinks to fit manhole profile
- High tensile strength and elongation
Accommodates structural movement
- Excellent abrasion resistance
Tough backing resists soil stress
- Supplied in bulk rolls
Fits any size manhole
- Complete joint coverage
Reduces ground water infiltration
- Positive external seal
For new construction or rehabilitation
- Provides corrosion protection
Extends manhole service life
- Long-term protection
Soil stresses, acidity, and freeze/thaw cycles
- Quick installation
Minimal downtime, cost effective

HEAT SHRINKABLE SLEEVE SYSTEM FOR MANHOLE JOINTS

- Seals joints which reduces ground water inflow and infiltration
- Compatible with concrete, fiberglass, plastic, and steel structures
- Installs in any climate
- Installs with municipal or contract labor
- Limited field training required
- Minimal surface preparation required



WrapidSeal™ - positive external seal; vacuum tests to 11" Hg.



WrapidSeal™ is field cut to minimize waste and reduce inventory.



WrapidSeal™ reduces I & I and provides long term manhole integrity.

THE PROBLEM:



Manholes will deteriorate as a result of soil stresses, groundwater, exposure to sewer gas, structural movement from traffic loading, and soil movement from wet/dry or freeze-thaw cycling. Over time the deterioration will cause infiltration of groundwater and soil into wastewater or stormwater systems. In paved areas, such as streets, manhole deterioration can generate sinkholes and cause pavement to fail. This results in restraints on treatment plant capacities, and increased costs for processing groundwater, paving repairs, traffic disruption, and ongoing damage to manhole and surrounding structures.

THE SOLUTION:



WrapidSeal™ is an external manhole encapsulation system that effectively seals the joints of a manhole and extends the service life of the structure. This system is made from a unique heat shrinkable thermoplastic material that conforms to the shape of the manhole and forms a tight monolithic seal on the joints. WrapidSeal™ can be used for new construction, or for the rehabilitation of existing manholes to control infiltration through joints and prevent deterioration; thus eliminating costly maintenance repairs and the added expense of treating groundwater.



WrapidSeal™ adhesive strength demonstrated with vertical lift.



Impact force depicts shear resistance of WrapidSeal™

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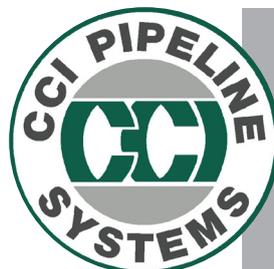
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