



INSIGNIA™ HYDROPHILIC CONNECTION HAT FAQ

Q: Why is CIPP rehabilitation alone not sufficient for a sealed system?

A: It is presumed that the resin in CIPP Liners bonds with host pipe, creating an effective water tight seal after cure. The truth is that resin shrinks due to polymerization leaving behind an annular space between liner and host pipe, allowing infiltration to migrate behind the new lining and re-enter into the collection system at lateral connections and manhole penetrations. The only way to totally seal a collection system is to use hydrophilic compression gasket sealing technology at manhole and lateral penetrations as well as at the mainline/lateral junction. The Insignia™ Connection Hat is for use at lateral connections. LMK also offers other Insignia™ products (the Insignia™ O-Ring and the Insignia™ End Seal Sleeve) which fulfill the purpose of sealing the lateral penetrations and termination points of overlapping CIPP liners.

Q: What are Insignia™ Connection Hats?

A: The Insignia™ Connection Hats are hydrophilic compression gasket sealing technology designed for use with CIPP at lateral and mainline connections to not only reduce Infiltration, but to eliminate it. With the inclusion of Insignia™ Connection Hats, owners can be assured that CIPP rehabilitation in the mainline and lateral pipe with these seals is not only structural, but water tight. This is significant because for years owners and municipal workers have been allocating funds to stop Infiltration but until now have not been successful in finding a product that is sufficient to do so.

Q. What Methods of CIPP Repair can be used in Conjunction with Insignia™ Connection Hat?

A: The Insignia™ Hats are compatible with Inversion and Pull-in-place lining methods

Q: How is an Insignia™ Connection Hat installed?

A: The Insignia™ Hat is installed with a connection liner such as the T-Liner®. Once the T-Liner® has been positioned on the launcher, the Insignia™ Hat is positioned on the liner and secured with the help of bungee cords on to the liner. The liner is inverted into the lateral pipe thus positioning the Insignia™ Hat at the mainline/lateral connection.

Q: What material is used to make the hydrophilic connection hats and why?

A: Insignia™ End Seal Sleeves are made of a specialty type of Neoprene Rubber. Neoprene is one of the most chemically inert and durable materials known to man. It is commonly known in water proofing applications like in the manufacturing of diving suits and also as a base for adhesives. Insignia™

Connection Hats are made of Neoprene modified with a proprietary compound that makes it hydrophilic.

Q: How long do the Insignia™ Connection Hats last?

A: The primary material of these seals, Neoprene rubber, is a chemically inert and durable material which ensures that the Insignia™ Connection Hats have long life span of at least 50 years.

Q: Have the Hydrophilic Seals been tested?

A: The Hydrophilic Seals have been tested for both Physical and Chemical Properties by third party testing. This testing establishes the Hydrophilic End Seals as highly chemically resistant and extremely durable.