

Heat Shrinkable Sleeve Standard

SPECIFICATION FOR SEWER MANHOLE SEALING (As Provided by CCI Pipeline Systems)

Para. 4. Precast Manhole Joint Sealing

Sub paragraph (4.5)

(4.5) Manufactured Heat Shrinkable Sleeve: Installation of an approved heat shrinkable sleeve product that conforms to paragraph 5.3 shall be installed over pre-cast structural barrel joints of the manhole structure in accordance with the manufacturer's recommended installation instructions.

Para. 5. Manhole Frame Sealing

Sub paragraph (5.3)

(5.3) Manufactured - Heat Shrinkable Field Applied Frame Seal: This external encapsulation seal consists of an irradiated, cross-linked polyolefin backing coated with an adhesive layer that bonds the sleeve to properly cleaned and primed concrete, metallic, or fiberglass surfaces of manhole frame and corbel sections. Product manufacturer shall demonstrate that the product conforms to the requirements of ANSI/AWWA C100, Standard for Heat Shrinkable Polyolefin Coatings for the Exterior of Special Sections, Connections, and Fittings for Steel Water Pipelines. The product(s) shall meet the functional performance and characteristics of heat shrinkable sleeves and be specifically tested to a Tensile Strength of 2,900 psi (per ASTM D638), Elongation of 600% (per ASTM D638), Hardness, Shore D, 46 (per ASTM 2240), Abrasion Resistance of 35 mg (per ASTM D 1044).

Heat shrinkable sleeve shall be applied only on structures where the configurations of the manhole components are judged acceptable prior to commencing surface preparation in accordance with the manufacturer's instructions. Ensure surfaces are clean, dry, and free of loose dirt and other contaminants prior to priming surface with recommended primer. Also make sure that sharp profiles, such as exposed aggregate, are removed to preclude possible damage to the heat shrinkable sleeve during recovery of the backing. Install heat shrinkable manhole encapsulation system in accordance with manufacturer's recommended installation procedure.

Sleeves may be applied in an overlapped fashion as necessary to provide additional coverage on a structure. Ensure a minimum sleeve overlap of three on each successive sleeve per manufacturer's recommendation.