

## Quality Manufacturers Since 1960

## **CEMENT-MORTAR ASPHALT LINING**

The purpose of the cement lining on the inside of ductile iron fittings is to reduce tuberculation or corrosion from building up on the fitting wall. Tuberculation and/or corrosion is minimized as the cement lining creates a high pH at the fitting wall and provides a physical barrier between the walls of the pipe. The asphaltic lining for the inside of fittings is no longer required by the AWWA but is our standard offering unless requested otherwise.

The asphaltic coating and lining on the inside of pipe and fittings can be used as a substitute for the moist-curing process. The Asphaltic coating and lining on the outside of pipe and fittings is for cosmetic purposes and provide some level of corrosion protection prior to being installed.

General Specifications	5	
Material <sup></sup>	:	Portland Type I-II Cement Mortar per ANSI/AWWA C104/A21.4, ASTM C150, Mixed with clean potable water Asphaltic coating and lining per ANSI/AWWA C104/A21.4, NSF-61 & 372
Standards		NSE-61 & 372 ANSI/AW/WA (110/A21 10 ANSI/AW/WA (111/A21 11 ANSI/AW/WA (153/A21 53

: NSF-61 & 372, ANSI/AWWA C110/A21.10, ANSI/AWWA C111/A21.11, ANSI/AWWA C153/A21.53

## **Technical Specifications** :

Size	Standard Thickness (Min.)	Double Thickness** (Min.)	Asphaltic Coat (Min.)
2" - 12"	1/16"	1/8"	2 mil
14" - 24"	3/32"	3/16"	2 mil
30" - 64"	1/8"	1/4"	2 mil

SIP fittings are lined and coated with the above Minimum Standards unless specified otherwise on purchase. Note:

\*Mechanical Joint Sleeves, Caps, and Plugs are provided with asphaltc coating only, as per AWWA C110/C153.

\*\* Double Cement Lining must be specified upon order placement.

## **Approved Repair**

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Materials & Equipment	: Approved mortar and asphaltic material. Wire brush, Water spray bottle, Cement/Sand sifter, measuring cup, bucket, cement trowel
Cement-Mortar Lined Fittings	<ul> <li>Remove any loose cement from damaged area.</li> <li>Clean and remove any corrosion of surface to be repaired.</li> <li>Pour cement through a wire type sifter basket and sift out any large items.</li> <li>Mix sifted cement with a sand and water per mortar manufacturers recommendations.</li> <li>Lightly wet surface to be repaired and let set until it is just damp.</li> <li>Fill in damaged area, smooth out with a damp sponge.</li> <li>Let cement dry and cure per mortar manufacturers recommendations*.</li> <li>Then coat with approved asphaltic coating**.</li> </ul>
Protect patched	lining can be kept moinst by the asphaltic coating or with the use of wetted burlap bags placed over the entire opening of the fitting. area from freezing. Allow 48 hours after repair before using the fitting in service. Itic coating 5 - 15 minutes after mortar is applied, after surface water has evaporated.
Asphaltic Coating* (Interior & Exterior) Note: *Paint repair to the	<ul> <li>Wipe area free of any loose paint, dust or debris with a cloth.</li> <li>Recoat exterior areas of the fitting with the paint provided as needed using a standard paint brush.</li> <li>fitting body or mechanical joint includes use of a hand steel bristle brush to remove loose corrosion.</li> </ul>
Technical Notes	<ul> <li>Pressure washing is not recommended, if required contact SIP before proceeding for recommendations.</li> <li>Maximum media temperature should not exceed 150°F.</li> <li>Glycol media concentration is not to exceed 40% and not to exceed 150°F or below Freezing.</li> <li>Some fittings such as caps, plugs, glands and sleeves will not have cement lining only asphaltic coating.</li> </ul>

• Warranty of the lining and coatings will be voided unless these instructions are followed.