Linings Available for Ductile Iron Pipe & Fittings

CORROSION CONTROL/FEATURES

Last Revised:
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<table>
<thead>
<tr>
<th>Description</th>
<th>Maximum Service Temperature (°F)¹</th>
<th>Uses</th>
<th>Thicknesses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portland Cement Mortar with Sealcoat without Sealcoat</td>
<td>150° 212°</td>
<td><strong>Common:</strong> Drinking Water Sea Water Non-Septic Gravity Sewers Sanitary Sewer Force Mains Reclaimed Water</td>
<td>Standard or Double (ANSI/AWWA C104/A21.4)</td>
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<tr>
<td>Fusion-Bonded Epoxy (Fittings Only)</td>
<td>120° - 150°¹</td>
<td><strong>Common:</strong> Drinking Water Non-Septic Gravity Sewers Sanitary Sewer Force Mains Reclaimed Water</td>
<td>(ANSI/AWWA C116/A21.16)⁴</td>
</tr>
<tr>
<td>Petroleum Asphalt Coating</td>
<td>150°</td>
<td><strong>Common:</strong> Air</td>
<td>1 mil (nominal)</td>
</tr>
<tr>
<td>Ceramic Quartz Filled Amine Cured Novalac Epoxy³</td>
<td>120° - 150°¹</td>
<td><strong>Common:</strong> Septic Sewers Acids Alkali Waste Pickling Brine <strong>Other Acceptable Services:</strong> Reclaimed Water</td>
<td>40 mil (nominal)</td>
</tr>
</tbody>
</table>

¹Maximum service temperatures listed are intended as general guidelines which may vary depending on service conditions and lining formulation. Consult pipe manufacturer for specific recommendations.

²ASTM C150 Type V sulfate resisting cement is recommended for seawater applications and some reclaimed water applications. Consult pipe manufacturer for specific reclaimed water recommendations.

³Consult pipe manufacturer for specific service use and material details.

⁴Recommended lining thicknesses may vary depending on service conditions, epoxy formulation, diameter, and other variables. Consult fitting manufacturer for specific recommendations.
For more information contact DIPRA or any of its member companies.

**Ductile Iron Pipe Research Association**

An association of quality producers dedicated to the highest pipe standards through a program of continuing research and service to water and wastewater professionals.

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**Social Media**

Get in the flow with Ductile Iron Pipe by connecting with us on Facebook, Twitter, and LinkedIn.

Visit our website, [www.dipra.org/videos](http://www.dipra.org/videos), and click on the YouTube icon for informational videos on Ductile Iron Pipe’s ease of use, economic benefits, strength and durability, advantages over PVC, and more.

**Member Companies**

AMERICAN Ductile Iron Pipe
P.O. Box 2727
Birmingham, Alabama 35202-2727

Canada Pipe Company, Ltd.
1757 Burlington Street East
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McWane Ductile
P.O. Box 6001
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United States Pipe and Foundry Company
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**Ductile Iron Pipe is SMART certified**