



History of Epoxy Pipe Lining in Potable Water Piping

<p>Epoxy lining of domestic hot water piping may be unfamiliar to many but it is <u>NOT</u> new. Epoxies have been around for more than 70 years and epoxy lining of potable water piping has been performed for 30 years. Epoxy lining is increasingly used to extend the life of municipal potable water infrastructure around the world. A 2006 AWWA Research Foundation Study concluded that the epoxy coating in water mains has a lining life of 40 to 60 years. High quality valves and other plumbing components have been lined with epoxy for decades. Epoxy lining of domestic hot water piping in high rise condominiums builds on that proven track record.</p>	
1936	Epoxy resins first patented.
1946	Epoxy resins commercialized by Ciba.
1970s	Epoxy lining of piping developed in Japan in the early 1970s.
1974	3M United Kingdom develops epoxy for pipe lining.
1985	Epoxy lining of small diameter potable water piping begins in Europe.
1987	Japanese pipe lining technology moves to the U.S. Provides pipe lining to the U.S. Navy for piping in its fleet of carriers. Epoxy lining has been used <i>without failure</i> in U.S. Navy ships for more than 20 years. EPA/NSF approval is granted to use epoxy to line small diameter potable water piping.
1990s	Epoxy pipe lining moves to Canada's west coast.
1991	RIKOS begins epoxy pipe lining in Germany.
2000	RIKOS starts pipe lining in Ontario.
2002	RIKOS starts pipe lining in the U.S.
<p>Epoxy Resins have grown to become the most important product used as surface protection in marine and industrial applications. The life span of epoxy coating is estimated to be 50 to 70 years. Existing marine applications prove durable after 50 years. Epoxies have proved themselves because of their adhesion, impermeability to water and their durability. Epoxy lined hot water piping offers better-than-new performance and a lifecycle that may well exceed two re-pipes.</p>	

(Revised 18/06/10)