

COATING DATA



Tested and certified by the
Water Quality Association according
to NSF/ANSI International Standard 61

DESCRIPTION:

A two-component, high solids, chemically cured epoxy coating. Ceramapure™ PL90 Ceramic Epoxy is a unique barrier coating formulated for the protection of ductile iron pipe and fittings for water or sewer service.

Ceramapure PL90™ is certified for cold end uses only to NSF/ANSI International Standard 61 for potable water immersion service for pipe diameters of four inches or larger. Ceramapure™ PL90 meets or exceeds the compliance standards for AWWA C-210.

PERFORMANCE TESTING

PANEL: Ductile Iron Pipe SYSTEM: Ceramapure™ PL 90

TEST	METHOD/CONDITIONS	DURATION	RESULTS
20% Sulfuric Acid Immersion		5500 hours	No effect when rated using ASTM D-714.
5% Sodium Chloride Solution (Salt Water) Immersion Unscribed panel		2 Years	No effect when rated using ASTM D-714.
5% Sodium Chloride Solution (Salt Water) Immersion Panel Scribed to Metal		2 Years	No effect when rated using ASTM D-714.
25% Sodium Hydroxide Immersion		2 Years	No effect
Distilled Water Immersion	AWWA C-550 @ 150°F	Per AWWA C-550	Passed
Salt Fog (Scribed Panel)	ASTM B-117	1 Year	No effect when rated using ASTM D-714.
Impact Resistance	ASTM 2794		Passed - 60 in./lbs.
Approval for contact with Potable water 4" and larger piping	NSF 61		Approved
Undercutting Resistance: Alternate Wet/Dry Immersion	(5% NaCl, flowing, aerated, 120°F, Wet 1 hour followed by Dry 1 hour- 12 Cycles daily)	1 Year	No undercutting at exposed edges.
Weathering Exposure	Coupons with cut edges exposed to ambient weathering conditions in Birmingham, AL	1 Year	Passed No undercutting at exposed edges.
Abrasion Resistance	EN-598	One Million Cycles	Less than 3 mils loss
Cathodic Disbondment	ASTM G-95 (Attached Cell Method)		Less than 2mm disbondment

LIMITATIONS:

The maximum continuous operating temperature for Ceramapure PL90™ Ceramic Epoxy lined ductile iron pipe is 120°F in immersion. Surges up to 150°F may be allowed if the 150°F is not the norm but is infrequent. Not recommended for dry heat above 200°F (93°C).

APPLICATION:

Certified Application is required. Please consult your Ductile Iron Pipe or Fittings manufacturer when ordering pipe or fittings lined with Ceramapure™ PL90 Ceramic Epoxy.

TOUCH-UP AND REPAIR:

Ceramapure™ PL90 Ceramic Epoxy must be touched up or repaired using the published Ceramapure™ PL90 repair procedure. Ceramapure™ PL90 Ceramic Epoxy does not require scarifying of the surface prior to being recoated with itself if recoated within 30 days.

DRY FILM THICKNESS:

40.0 mils nominal for water or sewer service.

Refer to Ceramapure PL90™ specifications for water or sewer service.