

COATING DATA

DESCRIPTION:

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

Ceramapure PL90 may be used for service in wastewater or water with excellent abrasion and corrosion resistance.

This product has been certified by the Water Quality Association to meet the requirements of **NSF/ANSI International Standard 61** for potable water immersion service for pipe diameters of 4” and up. Ceramapure PL90 meets or exceeds the compliance standard for AWWA C-210.

PERFORMANCE

TEST	METHOD/CONDITIONS	DURATION	RESULTS
25% Sodium Hydroxide Immersion		6000 hours	No effect when rated using ASTM D-714
20% Sulfuric Acid Immersion		5500 hours	No effect when rated using ASTM D-714.
Adhesion	ASTM D-4541		Direct to Steel: 3300 psi – glue failure
5% Sodium Chloride Solution (Salt Water) Immersion Panel Scribed to Metal		2 Years	No effect when rated using ASTM D-714.
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
Cathodic Disbondment “attached cell” method	ASTM G-95		Less than 2 mm disbondment
Weathering Exposure	Coupons with cut edges exposed to ambient weathering conditions in Birmingham, AL	1 Year	Passed No undercutting at exposed edges.
Bactericide Properties	ASTM G22-90	Per ASTM G22-90	Stops the growth and formation of Acidithiobacillus Bacteria

LIMITATIONS:

Do not use for immersion service above 120°F (49°C) or dry heat above 200°F (93°C).

SURFACE PREPARATION:

See *suggested standard specification for ductile iron or steel (www.Ceramapure.com)*.

COVERAGE:

Theoretical— 1,476 ft² per gallon at 1.0 mil dry film thickness.

DRY FILM THICKNESS:

15-40 mils per coat. Multiple coats may be used if necessary.

WET FILM THICKNESS:

18-45 mils

APPLICATION DATA**BLEND RATIO:**

One part Ceramapure™ PL90 Ceramic Epoxy Activator to one part Ceramapure® PL90 Ceramic Epoxy Base by volume. Power agitate until components are thoroughly mixed.

APPLICATION:

Certified Application Required.

THINNING:

None required. Clean equipment with K-1034 Reducer.

CLIMATE:

Use this product only if the substrate temperature and ambient air temperature is above 45°F and is expected not to decrease for at least two hours after application. Also, the substrate temperature must be 5°F above the dew point for a period of at least two hours after application to avoid condensation occurring on wet paint.

DRY TIME:

NON POTABLE IMMERSION SERVICE—50°F or higher, 7 days with proper ventilation;

40°F-50°F, 14 days with proper ventilation.

POTABLE WATER IMMERSION—Allow 30 days cure.

SAFETY DATA:

See individual product label for safety and health data information. Individual Material Safety Data Sheets are available upon request.