



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

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. This product has been certified for cold end uses only by the Water Quality Association to meet the requirements of NSF/ANSI International Standard 61 for potable water immersion service under the following conditions:
 Ceramapure™ PL90 Ceramic Epoxy applied up to 30 mils in one coat.
 Pipe diameters of four inches or larger.

PERFORMANCE

PANEL: Ductile Iron Pipe SYSTEM: One Coat Ceramapure PL 90 @ 30 mils DFT

TEST	METHOD/CONDITIONS	DURATION	RESULTS
SALT SPRAY	ASTM B 117 (Scribed)	1 Year	No Blisters or Undercutting
Distilled Water Immersion	77°F (25°C)	1 Year	No Blisters or Undercutting
Impact Resistance (Direct)	ASTM D 2794	1 Year	60 in/lbs, No Cracking
Salt Water Immersion	5% Sodium Chloride Solution	1 Year	No Blisters or Delamination

LIMITATIONS:

Do not use for immersion service above 120°F (49°C) or dry heat above 200°F (93°C). Not recommended for immersion in concentrated solutions of mineral acids or organic acids. Not recommended in sewage service.

SURFACE PREPARATION:

Ductile Iron—Remove all surface contaminants by abrasive blasting. Do not coat surfaces previously coated with asphalt. **Steel (Immersion)**—SSPC-SP 10 Near White Blast. This product does not require scarifying the surface prior to being recoated with itself if recoated within 7 days. Prior to recoating, remove all surface contaminants. When repairing mechanical damage follow printed repair procedure.

COVERAGE:

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

DRY FILM THICKNESS:

30.0 mils per coat. Multiple coats may be used if necessary.

WET FILM THICKNESS:

35.0 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.

POTLIFE:

One hour at 80°F decreasing with higher temperature.

APPLICATION:

Airless Spray—Use .029 tip; 30 mesh filter; 45:1 Pump ratio at 80-100 psi operating air pressure. **Roll**—Use lambs wool cover. Additional coats may be required to achieve desired film thickness. **Brush**—Use natural bristle brush. Additional coats may be required to achieve desired film thickness.

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:

TO HANDLE—10-12 hours at 80°F.

TO RECOAT—50°F or higher, 12 hours; 40°F-50°F, overnight.

IMMERSION SERVICE—50°F or higher, seven days with proper ventilation;

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

POTABLE WATER IMMERSION—Allow 30 days cure.

Note: High film thickness, low temperature and/or poor ventilation will retard dry time.

PHYSICAL DATA:

VOLUME SOLIDS: 90% ± 2%

SOLIDS BY WEIGHT: 90% ± 2%

WEIGHT PER GALLON: 8.4 ± .2 lbs per gallon (mixed)

VOLATILE ORGANIC CONTENTS:

0.8 lbs/gallon mixed unthinned; 95 grams/liter mixed unthinned

HAZARDOUS AIR POLLUTANTS (HAPS)

.014 lbs/gallon solids mixed unthinned; 1.7 grams/liter solids mixed unthinned

SAFETY DATA:

See individual product label for safety and health data information. Individual Material Safety Data Sheets are available upon request. 106