

INDURON

PROTECTIVE COATINGS

800 324 9584 | 3333 R. ARRINGTON N. • BHAM, AL 35234

TECHNICAL DATA

PERMA-CLEAN™ 100 CERAMIC EPOXY



WATER QUALITY

NSF/ANSI 61 Drinking Water
System Components 26KM

Maximum Surface Area/Volume Ratio: 12.1cm²/L
Water Contact Temperature: 23°C

COATING DATA

DESCRIPTION:

PermaClean 100 is a solvent free, immersion grade, UL/NSF Standard 61 lining incorporating ceramic pigment into an amine cured epoxy resin for maximum corrosion protection of immersed substrates. Perma-Clean™ 100 is a unique and outstanding barrier coating formulated for the protection of steel and concrete in potable water immersion service.

Perma-Clean™ 100 Ceramic Epoxy

- High build coating that may be applied up to 50 dry mils per coat.
- Complies with current U.S. EPA National Volatile Organic Compound (VOC) Emission Standards for OTC states effective January 1, 2005 and proposed for national AIM regulations in 2009.
- Formulated specifically for protecting steel and concrete in potable water immersion
- UL/NSF Standard 61 approved for potable water immersion for 15 – 50 mils DFT.

USE:

Perma-Clean™ 100 is ideal for protecting steel and concrete immersed in potable water. Priming not normally required. If priming is required, AquaClean, PE-70, RC-70, E-Bond 100 or Indurazinc MC67 are approved primers.

LIMITATIONS:

Do not use for immersion in concentrated solutions of mineral acids or organic acids. Maximum continuous immersion service temperature – 120°F (49°C). Maximum continuous non-immersion service temperature – 200°F (93 C).

SURFACE PREPARATION:

Steel (potable water Immersion) – SSPC SP-10NACE 2, Near-White Metal Blast Cleaning achieved with a granular aggregate to provide a minimum 3 mil profile. Ensure that 100% of all blast media is removed from the substrate prior to application of material. **Concrete** – New concrete must cure for at least 28 days. Verify dryness by testing for moisture per “ASTM D4263 Plastic Sheet Method”. Must be clean, dry and sound concrete substrates that are free of all curing compounds, oils, greases or any other contaminants. All concrete surfaces shall be made free of voids, cracks and other imperfections using Induron EFS 707 Epoxy Surfacer or Mortarchem. Prepare the surface per ICRI 310.2 to achieve surface profile to meet a CSP 3-5. **Recoating** – Multi-coat systems may require this product to be recoated with itself. This product does not require scarifying the surface prior to recoating with itself for 30 days. Prior to recoating, remove all chalk and/or other surface contaminates. Cure times exceeding 30 days require a uniform sweep blast with clean abrasives or power tools to impart a surface profile for proper bonding.

COVERAGE:

Theoretical—1,604 ft² per gallon at 1.0 mil dry film thickness.

DRY FILM THICKNESS:

15-50 mils per coat.

WET FILM THICKNESS:

15 to 50 mils.

APPLICATION DATA**BLEND RATIO:**

One Part Perma-Clean™ Part A Base to one part PermaClean™ Part B Activator.

POT LIFE:

less than 10 minutes @90F, 15 minutes @ 70°F, 30 minutes @50F.

APPLICATION:

Airless Spray - Heated plural component equipment required. Visit www.induron.com for additional information. Recommend a .025-.031 spray tip. **Roll** –Use lambswool cover for small areas. Additional coats may be required to achieve desired film thickness. **Brush** – Use natural bristle brush, for small areas.

THINNING:

Not required. Use Acetone or MEK for clean up.

CLIMATE:

Use this product only if the substrate temperature and ambient air temperature are above 40°F and is expected not to decrease for at least two hours after application. Also, the substrate must be 5°F above the dew point for a period of two hours after application to avoid possible condensation formation on the wet coating. Do not apply PermaSafe™ 100 over wet or frozen surfaces. Care should also be taken with substrate temperatures above 120°F since application properties may vary with higher temperatures.

DRY TIME: TO HANDLE—3 hours @90F, 6 hours @70F, 12 hours @50F.

TO RECOAT—Six hours at 80°F., overnight at lower temperatures

IMMERSION: 72 hrs. @ 60°F or warmer, 7 days below 60°F

Note: Lower temperature, higher film build, and/or poor ventilation will retard dry time.

PHYSICAL DATA:

VOLUME SOLIDS: 100% (mixed)

SOLIDS BY WEIGHT: 100% (mixed)

WEIGHT PER GALLON: 10.51 ± .2 lbs./per gallon

VOLATILE ORGANIC CONTENTS: Combined – 0.1 lbs./gallon or 13 g/l

HAZARDOUS AIR POLLUTANTS (HAPS) – 0.0 lbs./gallon

COLOR: Pool Blue

SAFETY DATA:

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