



IRN – Aqua Coat 61TM

Potable Water: 100% Solids – Zero VOCs

Palmer Contracting
105 N. 1st Street
#1710
San Jose
CA 95113



Drinking Water
System Component
NSF/ANSI 61

IRN – Aqua Coat 61: An advanced generation, 100% solids, high-build epoxy for the protection of steel and concrete. It provides excellent resistance to abrasion and is suitable for use on concrete or steel substrates where there is contact with **potable/drinking water**. Suitable for use in potable storage tanks as well as pipes transporting purified potable drinking water.

Excellent for use on porous, unheated concrete slabs to **reduce moisture vapor emission** rates from 100% RH or 25 lbs./1000 sq.ft./24 hrs to suitable levels for topping. Tested according to ASTM E96 - Water-Vapor Transmission Testing.

**When applying over concrete or heavily pitted steel substrates IRN-Aqua Coat 61 should be paired as part of a system with one of our IRN – Liner series products.*

Typical Applications:

Potable Water Treatment	Potable water transport (Pipes)	Potable water storage Tanks
Wastewater Collection	Wastewater transportation (Pipes)	Wastewater treatment structures
Industrial floors	Chemical Containment	Concrete/Steele

Technical Data:

- **Color:** High Gloss Medium Gray
- **Volume Solids:** 100%
- **VOC:** 0%
- **Adhesion to Concrete:** (ASTM D4541) Substrate Failure (>2,000 psi on steel).
- **Shore D Hardness:** (ASTM D2240) 85
- **Tensile Strength:** (ASTM D790) >6,000
- **Flexural/Compressive Modulus:** (ASTM D790) >500,000
- **Wear Resistance Loss:** (ASTM 4060. 1,000 cycles) 0.8g
- **Elongation:** (ASTM D412) 28%
- **Compressive Strength:** (ASTM D695) >12,000 psi
- **Water absorption:** (ASTM 570) 0.04%
- **Permeance:** (ASTM E96) ≤ 0.1 Perms

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Technical Data:

- Color: High Gloss Medium Gray,
- Application: Squeegee, non-shedding roller, single component spray pump
- Application Temp: 50°F - 100°F
- Volume Solids: 100%
- Recoat Time: 12-24 Hours @ 75°F
- Cure for use: @ 75°F, 16- 24 hours
- Recommended Thickness (DFT): 30-40 dry mils @ 40-50 sq. ft. per gallon
- Dry Service Temperature: 160°F
- **Mix Ratio: 1:1 by volume**
- Packaging: 1,00 ml Cartridge and 2 gallon Units
- Pot Life 25-30 minutes @ 75°F
- Shelf Life: 48 months if stored correctly

Surface Preparation:

Surface must be clean, dry and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Concrete & Masonry: SSPC-SP13/NACE 6, (ICRI No. 310.2R, CSP 3-5)

Steel: Blast to a “commercial” (SSPC-SP6) or “Near White” (SSPC-SP10) finish.

PVC or like: Consult with D&D Synergy Technical team for details

Mixing and Application: Mix part B thoroughly on its own. Add equal parts part A and B together and mix under slow mixing speed (no more than 600 rpm).

If spraying or rolling, up to one pint of MEK or other approved solvent can be added per 2 gallon kit. If 2 coat system is applied, each coat should be between 15 and 20 mils application thickness totaling 30-40 mils, or as specified. When applying as MVT barrier application thickness should be 15-20 mils as per ASTM Test.

If Spraying:

Use Single component sprayer with following characteristics:

- 0.023” orifice spray tip or greater
- 45:1 ratio spray pump or greater
- 3/8” hoses, with 1/4” whip.

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