

# Perma Seal II

## Epoxy/Acrylate Concrete Finish

This high performance, water based epoxy/acrylate finish provides outstanding durability, abrasion resistance, and high gloss retention without the toxicity and disposal considerations associated with some solvent systems. *Perma Seal II* also displays superb resistance to a wide variety of chemicals and solvents commonly found in industrial and commercial environments. When cured, *Perma Seal II* exhibits characteristics superior to solvent based urethanes and rivals those of solvent based epoxy coatings. *Perma Seal II* produces superior results when used on a broad range of concrete, ceramic and even vinyl composition tile surfaces. *Perma Seal II* is available in clear and medium gray. Light gray, beige, and light blue are available in batch quantities of 40 gallons or more.



### APPLICATION & MAINTENANCE

**New concrete floors** should be allowed to cure a minimum of thirty days. Application to floors colder than 60° F is not recommended. Floor surfaces must be free of any release agents, curing compounds, salts or efflorescence before coating. Sweep and then wash floors with *Brut*, *Grease Strip*, or *Citru-Gest* to remove oil, grease, and soil. Follow by etching surface with *Prepare*, then thoroughly rinse with clean water.

**If floor has been previously coated**, a small area should be cleaned, roughed up by screen disking with an 80 grit screen, and then sealer applied to test for adhesion, lifting, etc. Any areas of the existing coating which display poor adhesion should be removed. Wash the stripped areas, acid etch, and rinse thoroughly. Allow the floor to dry.

**Catalyzed *Perma Seal II*** should be used within six hours of mixing. Prepare only the quantity necessary for immediate use. Add premeasured catalyst to epoxy base. Stir gently until the catalyst has been thoroughly mixed in. Allow catalyzed *Perma Seal II* to stand for 5 minutes.

**Application: *Perma Seal II*** can be applied with a short nap roller (1/4"-3/8"). Apply *Perma Seal II* in thin, uniform coats. The initial coat will cover approximately 400-500 ft<sup>2</sup> per gallon. Allow the initial coat to dry for 5-7 hours, then apply a second coat.

**Note: dry times can vary depending on floor temperature and humidity conditions. High humidity and/or cool floor temperatures can extend drying and curing times.** Second coat coverage is approximately 500-600 ft<sup>2</sup> per gallon.

*Perma Seal II* can also be applied using an electric airless sprayer. Mask surrounding areas to protect them from over-spray. Use of an extension pole can help reduce over-spray. Positive results have been obtained using a 10" fan pattern spray tip with a .017 orifice. Apply a thin, uniform coat, making sure to move at a constant rate. Spraying can apply a heavier coat than rolling, so additional drying time may be required if a second is to be applied.

**NOTE:** This product is not recommended for applications that experience recurring or standing water. Finished floors may be opened to light traffic, under normal curing conditions, after 12 hours. Complete curing with maximum durability and chemical resistance will take 5-7 days.

### SPECIFICATIONS

Color	1-2 Gardner
Solids	31 ± 0.5%
pH	6.0 - 7.0
Weight Per Gallon	7.9-8.4
Resistivity-ASTM D257	(Medium Gray) 3-6 x 10 <sup>8</sup> PTP (Clear) 3-6 x 10 <sup>12</sup> PTP
Hardness	30 (Sward)
Viscosity	H - S (Gardner)
Solvents	Alcohol, Water-glycol
Flash Point	102°F
Dry Time	Dry to touch 5-7 hours Open for traffic 10-12 hours
Water Resistance	72 hours -No effect
Alcohol	72 hours -No effect
Gasoline	8 hours-No effect
Caustic 5%	72 hours -No effect
Soap Resistance	72 hours -No effect
Slip Resistance (ASTM F 609)	>.5 SCOF
Coverage	400 - 600 ft <sup>2</sup> per gallon
Odor	Moderate (Glycol Ether, Acetone)
VOC Content	≤ 350 grams/L

### SAFETY INFORMATION

Health	1
Flammability	2
Reactivity	0
Personal Protection	B

#### FLAMMABLE



#### IRRITANT



**Read Safety Data Sheet thoroughly before using.**  
**WARNING:** Category 3 Flammable Liquid. Flash point 102° F TCC. Harmful if Swallowed. Contains 2-Butoxyethanol CAS# 111-76-2, Acetone CAS# 67-64-1, and Glycol Ether EP CAS# 2807-30-9. Provide adequate ventilation. Prolonged exposure may cause dizziness. If dizziness occurs, seek fresh air. Use respiration equipment if needed. Eye protection, gloves and protective clothing should be worn during use. For contact with skin or eyes, flush with plenty of water. For ingestion or eye contact, seek immediate medical treatment.

# CHEMICAL RESISTANCE

## 30 Minute Exposure Time

Acetic Acid (Concentrate)	No Effect
Acetic Acid (5% Solution)	No Effect
Acetone	Very Slight Softening, No Color Change
Ammonium Hydroxide (28%)	No Effect
Amyl Acetate	No Effect
Benzene	No Effect
Butyl Alcohol	No Effect
Carbon Tetrachloride	No Effect
Cresol	Slight Surface Attack
Chloroform	No Effect
Ethyl Acetate	No Effect
Ethyl Alcohol	No Effect
Ethyl Ether	No Effect
Formaldehyde (40%)	No Effect
Gasoline	No Effect
Hydrochloric Acid (5%)	Slight Dulling
Hydrogen Peroxide (30%),	No visible change
Iodine	Yellow Staining
Methyl Alcohol	No Effect
Methylene Chloride	No Effect
Methyl Ethyl Ketone	Slight Surface Dulling
Mineral Oil	No Effect
Nitric Acid (5%)	No Effect
Nitric Acid (Conc.)	Slight Surface Attack
Phenol	Slight Surface Attack
Silver Nitrate (40%)	Slight Brown Stain
Sodium Hydroxide (50%)	No Effect
Sulfuric Acid (5%)	No Effect
Sulfuric Acid (50%)	No Effect
Trichloroethylene	No Effect
Vegetable Oil	No Effect
Xylene	No Effect

## 60 Minute Exposure Time

Antifreeze	No Effect
Benzyl Alcohol	No Effect
Dodecylbenzen Sulfonic Acid	No Effect
Formic Acid	No Effect
Isopropanol (IPA)	Slight Softening, No Color Change
Mineral Spirits	No Effect
Napthol Spirits	No Effect
Octyl Alcohol	No Effect
Oxalic Acid	Slight Dulling
Phosphoric Acid (75%)	Very Slight Softening



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