



EPOXY H2O

WATER-BASED EPOXY

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www.prolinestamps.com // 800-795-4750 toll free

DESCRIPTION: Proline's **Epoxy H2O** is a two component waterborne epoxy designed for use as a primer, basecoat, and interior sealer. It has a 3-hour pot life and will be tack free in 1 - 2 hours. Used as a general-purpose coating for warehouse and factory floors, garage floors, and many other residential and commercial applications. **Epoxy H2O** is available in clear and 9 standard colors. As with all epoxies, Epoxy H2O is not UV stable and should not be applied in areas with direct sunlight. Bonds to concrete, metal, wood and other surfaces.

TYPICAL USES:

Epoxy H20 Clear -

- **As a primer** – **Epoxy H20** is an excellent primer for Proline Decorative Concrete Systems' epoxies, urethanes, and cementitious coatings. Dilute with 20% clean water after mixing part A and part B. When used as a primer for cementitious coatings, sprinkle #60 silica sand into the wet **Epoxy H20** and apply the cementitious coating between 4 – 6 hours.
- **As a sealer** – **Epoxy H20 Clear** is a durable, cost effective sealer/primer for residential and commercial floors, warehouses, bathrooms, commercial kitchens, garage floors, hospital floors, and many other applications. Very effective for dust proofing floors and walls. Dilute with 20% to 30% clean water when used as a sealer.

Pigmented Epoxy H20 -

- **As a primer** – Used as a quick drying, colored primer before applying the Exotic Metals and other epoxy/polyurethane systems. For concrete with potential moisture problems, it is recommended to use Proline's **Vapor Block Epoxy** as a primer.
- **As a basecoat or sealer** – Pigmented **Epoxy H20** can be used as a basecoat for broadcasting Proline's Deco Flakes into. Broadcast Deco Flakes immediately after rolling down the epoxy as the epoxy dries quickly. Also great for solid color residential and commercial floors, warehouses, bathrooms, commercial kitchens, garage floors, hospital floors, and many other applications. Where more chemical resistance is required, Proline's Poly HD Urethane or Pro-Aspartic can be applied over top of Epoxy H20.

FEATURES & BENEFITS:

- Low odor
- Easy to apply
- Primer, basecoat & sealer
- Long working time
- Fast Drying
- Great performance
- Semi Gloss Appearance
- Excellent bond strength
- Adheres to many surfaces

CHEMICAL PROPERTIES*:

	Results
Solids by Volume _____	53% Clear, 64% Color
Volatile Organic Compounds gm/l _____	<100
Mix Ratio by Volume _____	4A Resin : 1B Hardener
Gel Time at 77° F (25° C), 150g _____	12 hours
Recoat Time _____	3 – 4 hours
Tack-Free Time _____	1 – 2 hours
Walk on Time (light foot traffic) _____	18 - 24 hours
Return to Service (vehicle traffic) _____	72 hours
Full Cure _____	7 days
Coverage Rate per gallon _____	250 – 400 sq.ft. (23 – 37 m2) at 2-5 mils
Recommended Application Temperature _____	≥ 50° F (10° C)
Odor _____	Mild
Color _____	Clear, Pigment for 9 Standard Colors
Shelf Life (unopened containers) _____	12 months

*Properties were tested at 70° F (21° C)



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TYPICAL PHYSICAL PROPERTIES*:	Test	Result
Pencil Hardness _____	ASTM D-3363	H
Adhesion (Crosshatch) _____	ASTM D3359	5
Direct Impact Resistance (lbs) _____	ASTM D-2794	60
Reverse Impact Resistance (lbs) _____	ASTM D-2794	20
Gloss @60 Degree _____		90

NOT RECOMMENDED FOR:

- Do not apply to concrete less than 28 days old
- Do not apply to concrete with a curing or sealing membrane
- Do not apply to concrete at temperatures less than 50°F (10°C)

CHEMICAL RESISTANCE:

Epoxy H2O has good resistance to motor oil, gasoline, and transmission fluid. Brake fluid can cause slight softening but recovers if removed quickly.

MOISTURE VAPOR TESTING: All concrete floors not poured over a proper moisture barrier, are subject to possible moisture vapor transmission or hydrostatic pressure problems, which can cause a coating system to blister or fail. Before applying a coating system over a concrete floor which is on-grade or below grade, the customer should be informed of this potential problem and given the option to have a qualified moisture testing company perform calcium chloride test to give the proper recommendations. Proline's Vapor Block Epoxy can be used as a primer to bring down moisture pressure. Proline does not warranty against moisture problem failures.

SURFACE PREPARATION: The surface must be clean and sound, free from oil, dirt, waxes and any other contaminants that may interfere with bonding. Some surface preparation methods include 1) Grinding with 25 – 50 grit diamond discs, removing dust, and rinsing 2) Scrubbing with detergent or acid washing, neutralizing and rinsing.

PIGMENTING EPOXY H2O: Epoxy H2O Pigment is sold separately. Premix Epoxy H2O pigment with Part A Resin prior to adding Part B Hardener. Empty entire contents of Epoxy H2O Pigment into the Epoxy H2O Part A bucket.

1.25 gal kit – After emptying the pigment container into the 1-gallon Part A Resin bucket; add 8 ounces of water to the pigment container and shake well for 10 seconds. Add the colored water to the Part A Resin bucket. Using a drill mixer, blend the pigment and Part A Resin for 3 minutes or until the Part A Resin is completely pigmented.

5 gal kit – After emptying the pigment container into the 4-gallon Part A Resin bucket; add 32 ounces of water to the pigment container and shake well for 10 seconds. Add the colored water to the Part A Resin bucket. Using a drill mixer, blend the pigment and Part A Resin for 3 minutes or until the Part A Resin is completely pigmented. If using multiple kits on the same project, make sure the water added to the pigment stays consistent to prevent color variations

MIXING INSTRUCTIONS: The mixing ratio for **Epoxy H2O** is 4 parts A (resin) to 1 part B (hardener). Mix part A and B together (only the amount that can be used within 3 hours) using a low speed drill mixer and mixing paddle for 2 minutes, scraping the sides and bottom of the container during the mixing process. For clear epoxy, dilute with clean water 20%-30%

(32 oz. – 48 oz. per 1.25 gallon kit) and mix for an additional 2 minutes. For pigmented epoxy, apply straight or dilute with clean water up to 5% (8 oz. per 1.25 gallon kit) and mix for an additional 2 minutes. Over diluting the colored version will reduce color hide. **Important:** **Once mixed, use the product within 3 hours, even though this epoxy does not harden in the bucket for 24+ hours.**



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APPLICATION INSTRUCTIONS: Epoxy H2O can be applied by brush or roller. Apply thin with a 1/4" or 3/8" nap roller to achieve a coverage rate of 250 – 400 sq.ft. (23 – 37 m²) per gallon (3.78 L). Keep a wet edge and do not roll into an area once it has begun to set up to avoid color differences. Usually Epoxy H2O can be recoated within 4-5 hours. Be sure to re-coat or coat with other epoxy/polyurethane type products within 24 hours to achieve the best chemical bond. After 24 hours it will be necessary to sand the Epoxy H2O with an orbital sander and #120 - #150 grit sandpaper to achieve a physical/mechanical bond. **Important: Use a lint free or micro fiber roller. Ensure the roller cover is lint free. One method to remove loose lint is by wrapping the roller with duct tape. Any loose roller hairs can result in surface defects.**

COLOR OPTIONS: Clear and 9 standards colors (Pigment sold separately) Custom colors are available by special order.

HOW SUPPLIED: Epoxy H2O is packaged in 1.25 gallon kits and 5 gallon kits. Epoxy H2O Pigment is sold separately.

STORAGE: >50°F (10°C)

SLIP/FALL PRECAUTIONS: Proline recommends using slip resistant granules in applications where the Epoxy H2O will be exposed to water, oil or other spills that may cause a slippery environment. Aluminum oxide granules #80 grit or courser may be broadcast into the prime coat to achieve the amount of slip resistance desired. It is the end user's responsibility to determine the suitability of a coating for their particular application. Proline nor its sales people will not be responsible for injury incurred in a slip/fall accident.

SAFETY PRECAUTIONS: Health Considerations: Refer to the Proline Safety Data Sheets This chemical system requires the use of proper safety equipment and procedures. Please follow the Proline product SDS and Safety Manual for detailed information and handling guidelines.

For Your Protection: The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning the products and their uses, applications, storage and handling are only the opinion of Proline. Users should conduct their own tests to determine the suitability of these products for their own particular purposes and of the storage and handling methods herein suggested. The toxicity and risk characteristics of products made by Proline will necessarily differ from the toxicity and risk characteristics developed when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors. Because of numerous factors affecting results,

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