

HYDRO-PEL

A CLEAR, PENETRATING, WATER-BASED, ALIPHATIC POLYURETHANE
DESIGNED TO BE USED AS A WATER, OIL & STAIN REPELLENT

HYDRO-PEL is a one-component, clear, penetrating, water-based, aliphatic polyurethane designed to be used as a water, oil and stain repellent. Hydro-Pel mechanically and chemically bonds to a wide variety of mineral substrates including, but not limited to brick, concrete pavers, concrete slabs, block, stucco, natural stone and clay tile. Hydro-Pel reduces undesired stains, cracking, freeze/thaw damage, chemical degradation, biological growth, efflorescence and dirt pickup.

USES

- Chimneys
- Patios
- Walkways
- Driveways
- Stairs
- Pool decks
- Garage floors
- Warehouse floors
- Basement floors

ADVANTAGES

- Advanced nano technology
- Water, oil and stain repellent
- Excellent beading properties
- Vertical and horizontal applications
- Single component, user friendly
- Low VOC
- UV stable
- Breathable
- Minimal change in appearance
- Mitigates moisture & efflorescence transfer
- Improves freeze/thaw stability
- Resists biological growth & chemical degradation

PACKAGING

1 gallon (3.78 liter) bottle
5 gallon (18.9 liter) pail
55 gallon (200 liter) drum

SURFACE PREPARATION

Hydro-Pel is designed to be applied over untreated concrete and masonry surfaces. For optimum performance all new masonry, concrete and stucco must age at least 28 days prior to application. Surfaces to be coated must be **DRY**, sound and clean. Hydro-Pel will not fill voids or bridge cracks. All deteriorated mortar joints, voids and cracks must be re-pointed or patched with Umaco Universal 1023 or equivalent and then allowed to cure. Remove all dirt, dust, spalling or loose concrete, oil, grease, wax, mildew, efflorescence, curing compounds, form release agents, paint or any other foreign material which might effect the bond.

SEE WARNING ON BACK PAGE REGARDING PAINT REMOVAL.

Umaco Ultra-Clean may be used to remove oil or grease stains from the surface and may also be used as an all purpose cleaner for surface preparation. Concrete surfaces that are very smooth and non-porous should be lightly etched using Umaco Ultra-Etch. Ultimately, a porous surface is required for the material to penetrate properly. Test by sprinkling some water on the surface. If the water is quickly absorbed, the surface is ready. If the water beads up, further preparation is required. Contact a Umaco representative for more information regarding proper surface preparation.

APPLICATION

Hydro-Pel can be applied using a brush, roller, pump-up, HVLP or airless spray. This product is best suited for application in temperatures between 50°F to 95°F. Do not apply by spray in windy conditions. Cover and protect all adjacent surfaces if applying by spray. On vertical applications, start at the top and work down side to side with a six

inch run. Saturate the surface so that enough excess flows down and can be covered by the next pass. On horizontal surfaces, saturate while applying evenly but do not allow to pond or puddle. If puddles occur, brush or roll them out. Water beading can be seen within hours after air drying and will increase over the following one to four days.

RECOAT

Hydro-Pel has indefinite inter-coat adhesion to itself. Older slabs or very porous substrates may require additional applications to ensure substrate has achieved full saturation. Allow initial coat to dry before applying additional coat.

CURING

Optimal curing condition is 73°F, Relative Humidity 50% and airflow. Repellency begins to develop within 24 hours, completed in one week. Beading generally improves with time.

COVERAGE

Approximate coverage is 200 ft² per gallon. Coverages will vary depending on surface porosity, profile and application method.

LIMITATIONS

- Do not apply on wet or damp substrate
- Do not apply when substrate is in direct sun (high noon)
- Apply when ambient and surface temperatures are between 50°F-95°F
- Substrate temperature must be 5° F above dew point
- New concrete must cure 28 days
- Do not apply over non-porous, smooth troweled or previously coated substrates



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CLEANUP

While still wet, clean up equipment with soap and water.

DISPOSAL

Dispose of empty packaging and other waste in accordance with federal, state, provinces and local regulations

STORAGE

Hydro-Pel has a shelf life of one (1) year from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-90°F (15-32°C).

TECHNICAL DATA

Solids by Volume: 9.7%

VOC's: 23.5 g/l

Color: Milky white, dries clear

Coverage per Gallon: 200 ft²/gal

Flash Point: > 200°F

WARNING

Harmful if inhaled. Harmful if swallowed. May cause eye irritation. May cause allergic skin reaction. Before using, read the Safety Data Sheet and follow all precautions to prevent bodily harm.

WARNING! If you scrape, sand or remove old paint, you may release lead dust or fumes. **LEAD IS TOXIC. EXPOSURE TO LEAD DUST OR FUMES CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE.**

Before you start, find out how to protect yourself and your family by contacting the USEPA National Lead Information Hotline at 1-800-424-LEAD or log onto www.epa.gov/lead. Wear a properly fitted respirator and prevent skin contact to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Follow these instructions to control exposure to other hazardous substances that may be released during surface preparation.

**For technical assistance call
978-453-8881.**

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LIMITED WARRANTY

The manufacturer guarantees its products to be free of defects and the extent of its liability is limited to the purchase price of the materials only, if proved to be defective. Improper mixing, incorrect application or other factors beyond the control of the manufacturer or its dealers may produce unsatisfactory results and cannot be held to be the manufacturers or its dealers responsibility. There are no other guarantees either expressed or implied. (Hydro-Pel 2023)

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