

## TECHNICAL DATA SHEET

# PRO Tek Concrete

## Overview

PRO Tek Concrete is a revolutionary concrete treatment designed to reduce water and chemical permeation of concrete, mortar, and other substrates that contain alkalinity such as many natural stones. It is a clear, zero-VOC, single-component, water-based, non-film forming concrete fortifier that reacts below the surface of the concrete.

### Highlights:

- **Comprehensive Waterproofing:** PRO Tek Concrete is uniquely capable of being applied to the negative side of a structure, effectively stopping water infiltration.
- **Hydro Gel Formation:** The treatment chemically reacts with the alkali within the concrete to form a hydro gel. As this gel cures, it crystallizes, creating a dense, insoluble formation that blocks liquid while permitting moisture vapor to escape.
- **Hydrophilic Properties:** PRO Tek Concrete is hydrophilic, meaning it seeks out water and can even withstand pressure-driven moisture well over 50 psi.
- **One-Step, One-Time Application:** This product continually reacts within the concrete matrix, ensuring long-lasting effectiveness without the need for reapplication.
- **Uncompromised Surface:** PRO Tek Concrete does not alter the surface color, coefficient of friction (CoF), or interfere with the bonding of subsequent restoration products applied after use.

### Advantages:

- One time application lasts the life of the structure.
- Resists penetration of water, grease, oil, acids, and salt.
- Inhibits mold and algae growth.
- Applies in one coat.
- Cleans up with water.
- Applies clear with no gloss, film or yellowing.
- Enables easier stain, snow and ice removal.
- Prohibits pitting, rutting, and dusting.
- Can be used as cure for green or existing concrete.

PRO Tek Concrete provides a robust and lasting solution for waterproofing, ensuring the integrity and durability of concrete structures.

### Uses:

- Concrete, pavers, CMU block, cement brick
- Roof tiles
- Sidewalks, curbs, gutters
- Natural and man-made stone
- Shell stone and pebble stone
- Pool decks
- Garage floors
- Concrete driveways
- Parkades
- Farming
- Basements
- Infrastructure
- Acidic environments
- Efflorescence

### Application Parameters:

#### *For in situ concrete*

- **COLD TOLERANCE:** Apply PRO Tek Concrete in surface temperatures that are above freezing. Situations will arise where the overnight surface temperature will fall below freezing, this is approved IF 3 hours has elapsed since final application.
- **HEAT TOLERANCE:** When surface temperatures are above 105° F, the substrate will require more product, therefore reducing the effective coverage rate. Dampening the surface to Surface Saturated Damp (SSD) with clean water prior to application will help cool the substrate and extend dwell time of the product.
- **RAIN:** Apply only when no rain is forecast for at least 3 hours after final installation of PRO Tek Concrete. If rain does fall within 3 hours of final application, reapply to area(s) last treated.

*See next page for application instructions.*

## Application Instructions

### Safety

Always wear proper protective equipment (PPE). Safety glasses, dust mask, and nitrile gloves are recommended. See SDS for details.

### Surface Preparation

1. PRO Tek Concrete comes Ready to Use (RTU). Do not dilute.
2. Do not apply over paints, sealers, or other film-forming materials that will prevent the product from reaching the intended substrate. If these coatings exist, they must be removed prior to application.
3. Surface should be clean, sound, free from grease, silicone, or any material that will prevent penetration of PRO Tek Concrete. For general cleaning prior to application, use EverTek's [Greasy Clean](#).
4. Filled cracks must be "crack chased" clean, cracks must be vacuumed and clean prior to application.
5. PRO Tek Concrete can be applied on surfaces that rest in horizontal, vertical, or overhead positions.
6. CAUTION: Take precaution to cover or tape metal, glass, or any other unintended item that is not to be treated with PRO Tek Concrete. Take preventative measures to ensure wind direction and wind drift does NOT allow overspray to rest, land, or reside on unintended surfaces. If PRO Tek Concrete does meet metal, glass, or painted surface wipe up immediately using a water-dampened rag.

### Product and Equipment

- Shake or vigorously stir product before use.
- DO NOT DILUTE. PRO TEK Concrete is ready to use as supplied.
- Apply product using a low-pressure type of pump sprayer. Examples include but are not limited to a manual backpack sprayer, battery powered backpack sprayer, or a pump and cart sprayer. Use the cone tip provided with spray equipment. Job size will determine the proper equipment for application rate.
- DO NOT ATOMIZE PRODUCT DURING APPLICATION. Use of HVLP or airless sprayer is not suitable nor approved for application and results will be negative.

### Execution on Green/New Concrete

1. When final texture has been applied to concrete, and the concrete can support the weight of the applicator and equipment without marring the surface begin applying PRO Tek Concrete. Anticipated coverage when used as a cure and fortifier will be between 300 and 350 sq. ft.
2. Apply product before or after saw-cutting concrete. Try to maintain application of PRO Tek Concrete within 12 hours of achieving final texture in concrete per the Cement Association's recommendations for curing concrete and conforming to ACI 308.
  - When saw-cutting before application of PRO Tek Concrete, concrete dust will occur around the saw cuts. Typically, this is blown clean only. Concrete dust will clean away with broom once product dries. Since PRO Tek Concrete is not film forming there are no solids to adhere concrete dust to the surface.
3. Mark the site with stakes, walls with tape, or use other means to calculate coverage rates during application.
4. Apply product using a cone tip spray nozzle. Apply in a circular pattern, overlapping the previous circle by one-third.

5. When applied correctly, a glossy sheen should be visible on the surface of the concrete. Dull areas indicate a missed area or an area needing reapplication.
6. Maintain a sheen or glossy surface for 20 minutes. If dull areas appear inside of 20 minutes reapply product to those areas.
  - NOTE: when used as a cure it is often observed that the sheen will remain for several hours. This is normal.

### Execution on In Situ Concrete

1. Mark the site with stakes, walls with tape, or use other means to calculate coverage rates prior to application.
2. Porous substrates will see a reduction of coverages rates, whereas dense surfaces will see an extension of coverage rates. Rates can vary from 80-250 sq. ft. per gallon. Always perform a suitability sample prior to starting any project to determine product usage.
3. PRO Tek Concrete can be applied to a dry surface or a Surface Saturated Damp (SSD) surface, do not apply if there is standing water.
4. If site conditions are hot, sunny, windy or a combination of heat, sun or wind, dampening the surface of the concrete with water prior to application will extend the dwell time to reach the required 20-minute saturation process.
5. Apply product using a cone tip spray nozzle. Apply in a circular pattern, overlapping the previous circle by one-third.
6. When applied correctly, a glossy sheen should be visible on the surface of the concrete. Dull areas indicate a missed area or an area needing reapplication.
7. Maintain a sheen or glossy surface for 20 minutes. If dull areas appear inside of 20 minutes reapply product to those areas as needed.
8. As product dries, mop or broom out any puddles that have formed. Allowing puddles to form will result in an excessive reaction on the surface of the concrete or substrate. In most cases this is not viewed as an issue unless the surface is intended to be finish coated using a fluid applied flooring solution.
9. Allow PRO Tek Concrete to dry 3-4 hours before opening surface back up to traffic.
10. Do not apply if rain is forecasted within 3 hours of finishing application of PRO Tek Concrete.
11. Continue with project restoration 24 hours after application. EXCEPT in situations where PRO Tek Concrete has purged contaminants out of the substrate including but not limited to salts, chlorides, grease, and acids. Use appropriate cleaners to remove these substances, or in some scenarios mechanical prep may be needed.

### Execution on Vertical Surfaces: Concrete Block (CMU) or Precast

1. Care should be taken to protect windows, metal or wind drift of product onto unintended surfaces.
2. Mix PRO Tek Concrete before use.
3. Using a low-pressure sprayer apply PRO Tek Concrete to the substrate at a rate of approximately 200 sq. ft. per gallon.
  - Take note: Porosity of substrate will dictate product usage rate. The more porous the substrate, such as CMU, the more PRO Tek Concrete will be required for proper application. Coverage rates in some cases can be seen ranging from 180 to 230 sq. ft. per gallon.

- o A suitability sample should always be produced for job commencement. This will ensure that the appropriate amount of material is on site and determine the correct number of coats to maintain a wet surface for a minimum of twenty minutes.
- 4. Starting at the bottom of the vertical surface, begin applying PRO Tek Concrete.
- 5. Apply PRO Tek Concrete in a circular motion, overlapping the previous stroke by 1/3rd.
- 6. Allow PRO Tek Concrete to be applied as to minimize "runs". If runs form, move to a new section and apply product.
- 7. Take care to ensure PRO Tek Concrete stays on the surface wet for a minimum of 20 minutes, and not allowed to dry between coats. This infers wet on wet applications, allowing product to dwell for 20 minutes.
  - o In most vertical applications this will require 2, possibly 3 coats to properly "seat" PRO Tek Concrete.
- 8. Immediately clean any surfaces with a damp, water wet rag. Do not allow product to reside on unintended surfaces.
- 9. Coverage rates will vary depending on substrate porosity. This is normal. It is important to allow PRO Tek Concrete to dwell wet for 20 minutes regardless of coverage rate.
- 10. In situations where the sun has heated the surface intended to be treated above 90° F, wetting the surface with water to cool is an acceptable practice before applying product.
  - o PRO Tek Concrete can be applied to a water damp surface.

**Execution with Abnormal Substrate Conditions**

Consult with EverTek Technical Services in situations that are abnormal. Examples include but are not limited to: active water leaks, concentrated acidic environments, highly abrasive environments, freezing during application, odor suppression from fire or flood, mold, excessive purging of contaminants, and highly contaminated substrates.

**Clean Up**

Clean tools with clean water immediately after use.

**Disposal**

Dispose of product in accordance with local governing codes.

**Product Data**

<b>Estimated coverage rates</b>	Existing concrete: 200 sq. ft. per gallon depending on porosity of surface. / Green concrete: 300-350 sq. ft. per gallon
<b>Mixing ratio</b>	Single component. Ready to use. DO NOT DILUTE.
<b>Shelf life</b>	Two (2) years from date of manufacture on unopened containers. Protect from freezing and excessive heat.
<b>Packaging</b>	1-gallon jug / 5-gallon pail / 55-gallon drum / 275-gallon tote

**Typical Physical Properties (at 78° F / 24° C)**

<b>Vehicle type</b>	Water-based solution
<b>Color</b>	Clear
<b>Flash point</b>	None
<b>Flammability</b>	None
<b>Odor</b>	None
<b>pH</b>	11
<b>Weight per gallon</b>	9.2 lbs. / 4.17kg
<b>VOC</b>	0.0
<b>Drying time</b>	2-4 hours

***A clear, zero-VOC, single-component, water-based concrete fortifier that reacts below the surface of concrete.***