

PRO Surface HD

Overview

PRO Surface HD is a high-strength, industrial concrete resurfacing repair mortar designed with a no-excuse attitude for durability and lasting results. It is specifically formulated for exterior restoration of high-traffic industrial sites in need of a new high compressive wear surface. PRO Surface HD is also suitable for use to provide a new wear topping in areas where introducing a new anti-slip finish is desired.

Use PRO Surface HD to:

- address wet areas where slip and falls are a concern.
- restore spalled concrete.
- restore texture to high-traffic areas that have succumbed to wear patterns.
- undertake seawall restoration.
- repair concrete surfaces damaged during placement.
- provide a rapid turnaround time for assets to be placed back in service.
- offer a permanent and easily maintained solution.

Limitations:

- Apply when substrate temperature is maintained between 40°F and 90°F.
- Avoid installing over existing flooring products, carpet glues, or asbestos.
- Ensure the substrate is clean, sound, stable, and prepared to receive the coating.
- Refrain from installing exterior applications if rain is predicted within 12 hours of application.
- Honor all joints in the subfloor.
- Avoid installing over standing water.
- Do not use if the product has hardened in the bag.
- Note that it does not act as a moisture barrier. If vapor transmission exceeds the recommended amount for the finish floor choice, consult EverTek Construction Products for a suitable solution.

Surface Preparation:

PRO Surface HD must be installed over a suitable and properly prepared concrete substrate. A suitable substrate means the substrate is structurally sound and stable. A properly prepared floor should have an International Concrete Repair Institute ICRI CSP (concrete surface profile) between CSP of #2 to #4 for industrial applications or areas that receive considerable traffic. Areas with pedestrian traffic, golf carts, and light duty use, an ICRI CSP of #2 to #3 is acceptable. Consult with an EverTek Canada representative if questions arise.

EverTek ATTACK CES is a suitable to be used as a surface preparatory aid. Read on to establish proper dilution prior to use.

Areas that have larger voids in excess of half an inch need be spot treated with PRO Surface HD prior to application. See mix consistency and water demand on reverse.

Joints should be cut back. Do not apply over any joint sealants. Joints should not be filled but rather brushed or cut clean to receive new joint sealant upon cure.

Cracks need be prepared by using a crack chasing blade and then back filled with appropriate 100 solids epoxy with sand broadcast. Cracks are not a warrantable item.

Application Instructions

Safety:

- Wear proper PPE while handling any cement-based product.
- Avoid inhaling dust.
- Do not let product reside on bare skin.
- Can be an eye irritant.
- Refer to Safety Data Sheet for further explanation.

Mixing:

1. When mixing, use cool clean water. Ensure the bags are not left in direct sunlight as they will absorb heat and reduce work time.
2. The contents of one 50-pound bag of PRO Surface HD fit and mix well in a 5-gallon bucket. Mix using a mortar type blade on a suitable drill. For larger projects a mortar type mixer is recommended.
3. Depending on the number of bags to be used, pour the required amount of water into the mixing vessel first. Hold back approximately 10% of the water demand to tweak the final mix for consistency.
4. Water demand can vary based on atmospheric and site conditions. Water demand can also vary depending on the consistency of the mix deemed necessary to perform the desired finish or patch work.
 - Per one 50-pound bag PRO Surface HD, add 160 – 220 ounces of cool water.
 - For spot patching deeper repair areas up to 1/2 inch use the lower end of the water demand spectrum.
 - For a broom type finish where workability is key, use the upper end of the water demand.
 - Note: Maintain consistent water usage from bag to bag across the entire project. This will allow a dependable installation procedure.
5. If adding color, add color into the water and mix for 1 minute prior to adding PRO Surface HD.
6. Slowly add bagged goods to mixing vessel inclusive of measured water and mix for 2-3 minutes until a lump free consistency has been achieved. When safe, scrape the sides of the mixing vessel to loosen and mix in clump material on the side. Remix.
7. It is not possible to over mix this product and slight water additions may be added if work time is pressured.
8. Pot life at 80° F is 40 minutes. Re-tempering may be necessary.

Product Application:

1. Ensure substrate is between 40° F and 90° F. Do not allow newly applied product to freeze for 24 hours. If substrate is above 90° F, the temperature can be brought down by dampening the slab SSD (Surface Saturated Damp) using cool water from a water hose prior to application. Work time is reduced if bagged goods, water, and substrate are hot.
2. Do not apply PRO Surface HD to areas not intended to be coated. Take protective measures to asphalt, windows, wood, or other items. If items become unintentionally coated, wipe down immediately with water wet rag leaving no residue behind. Any product left on an unintended surface will encounter incredible difficulty to remove, likely damaging what is beneath.
3. Dampen SSD (Surface Saturated Damp) slab prior to application. Do not puddle water. If puddling occurs, blow or mop up wet area.
4. Pour material from dispensing vessel in a ribbon type method starting at the area furthest from where you intend to finish or have an exit.
5. Using a magic trowel, funny trowel, or standup squeegee, spread product evenly across substrate. Or, if a decorative texture is preferred, a pool trowel will easily accomplish almost any finish desired.
6. While product is still wet approximately 5 minutes after applying product to substrate, a concrete broom can be used to add a broomed concrete finish if desired. Often this will require a coworker to be in spiked shoes to enter into the field of applied product.
7. Allow to dry 4 hours for temperatures above 70° F before recoating the product if a second coat is required due to substrate deficiencies or to achieve desired finish.
8. Repeat steps 1 -7 for application of a second coat.
9. If tape is used for masking purposes, it is recommended to use fiber tape design to pull through hard finishes. Tape should be removed within 2- 4 hours of application by carefully walking out in spiked shoes. Failure to remove tape within 2 - 4 hours will result in severe difficulty in removal.

Curing:

- Allow 24 hours before foot traffic is allowed on to the surface.
- Allow 72 hours before vehicular traffic is allowed on to the surface.
- Allow 24 hours to cure before sealing.
 - If a sealer is to be used as a final coat, do not seal before 24 hours since last application. Follow directions for desired sealer and moisture content in substrate before application.
- PRO Surface HD is self-curing and does not require any post-cure procedures.

Clean Up:

- Clean all tools with water before product dries on the surface.
- Clean hands with water.
- Clean edges of the slab where PRO Surface HD has run off with a trowel before product dries.

Application Properties

Installation Air Temperature	40° F and 100° F
Slab temperature during application	Substrate/Slab to remain between 40° F and 90° F
After application up to 24 hours	Do not allow to freeze.
Mix Ratio:	
As a thick patch	150 - 180 ounces cool water per 50-pound bag
As a finish	160 - 220 ounces cool water per 50-pound bag
Mix time	2-3 minutes once all components have been combined
Work time	30 minutes - 1 hour
Minimum thickness	1/8 inch
Maximum thickness per lift	1/4 inch
Recoat wait time	
Thick	12 hours when temperatures are above 70° F
Thin	4 hours when temperatures are above 70° F

Physical Properties

(at 80°F and 70% relative humidity RH)

Cured Density	132 pounds per cubic foot
Wet Density	134 pounds per cubic foot
pH (of wet mixture)	11.0 GPL
VOC's (Rule #1168 of SCAQMD)	
Compressive strength ASTM C109	
7 days	>3800 psi
28 days	>4400 psi
Pull out strength ASTM C1583	
28 days	>400 psi/substrate failure
Shelf Life when stored at 80° F and 60% RH	1 year in original, unopened packaging

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