

NORTEC® PROTECT DATA SHEET

Sealer

Primary Applications

- Ideal for polished, dyed and stained concrete

Features

- Substrate color enhancing
- Fast-drying and Quick-curing
- Functional, ecological and economical
- Self-polishing
- Highly abrasion-resistant
- Reduced permeability
- Non-dusting and non-marking
- Easy to clean
- Tough, durable, cost-effective and sustainable
- No coloring - Clear appearance
- Excellent water repellency
- Dust proof
- Breathable
- Interior use

Advantages

- Less down time
- Enhances and protects stained, integral color and dyed decorative surfaces
- Maximizes light reflectance
- Reduced wear
- Increased life expectancy
- Reduced overall project costs
- Provides higher reflective gloss and sheen
- Full depth concrete hardening
- Superior hardness
- Increases life expectancy of the concrete surface
- Safe, durable, long-lasting
- Resistant to blushing and will not yellow or age with exposure

Product Description

NORTEC® PROTECT is a sealer for stained or polished concrete. It is a concentrate that should be reduced before use. It penetrates uniformly into concrete or terrazzo to chemically solidify the substrate into a homogeneous, dense sealed and hard surface. *NORTEC® PROTECT*'s unique formula, reacts with calcium hydroxide to form an insoluble chemical bond while creating a micro-film along the surface of the concrete, thus enhancing gloss and hardness without affecting slip resistance.

NORTEC® PROTECT will not absorb water or contribute to Surface Sweating Syndrome (SSS) or Alkaline Silica Reactivity (ASR).

Preparation and Use

Due to the wide variety of substrates, preparation methods, application methods and environments, the customer should test the product in an inconspicuous spot for compatibility prior to full scale application.

Test the absorbency of the substrate by sprinkling water on the surface in a variety of areas across the entire surface to get an average condition. If the water penetrates into the substrate quickly, it is ready to finish. If the water beads up or does not penetrate, the surface has some type of sealer/coating.

All surfaces must be clean, dry and free of grease, oil, dust, dirt, etc. To clean, use a neutral pH cleaner/degreaser, following label directions, rinse thoroughly and allow the surface to dry. If mold, mildew, or fungus is present, kill and remove by cleaning with a solution of 1 part household bleach to 3 parts water.

Any membrane-forming curing compounds or sealers should be removed using an abrasive as aggressive as diamonds or as passive as a black stripping pad. For the best protection on concrete and masonry, patch and repair damage, holes, cracks and crevices. Patching compounds and sealants will generally be visible through clear coatings. Mixing concrete dust from the floor onto the patch while still wet can help blend the patch into the overall floor.

Epoxy repair materials should be applied prior to abrading/ burnishing; urethane and polyurea materials should be applied after abrading/burnishing.

The surface of the concrete can be abraded through light sand blasting, track blasting or grinding and honing using the appropriate series of abrasives. Remove all blast residue. The floor can be ground using either a dry or wet grinding process.

When using a grinding process, depending on the initial condition of the floor and the desired finish, use anywhere from a 25 grit for product or surface removal up to 3500 grit for a very smooth, polished finish.

The coarse grit abrading should be followed by progressively finer grits until the desired finish is accomplished.

Application

Thoroughly mix product as packaged. Mix product at a 1:1 ratio with clean water to create RTU product. Apply using a Hudson® sprayer and a micro fiber applicator or similar equipment. Product should be spread thinly and evenly so as to cover the substrate.

The Hudson sprayer will help to get the product thin enough to cover 50 m² per liter of RTU mixture.

The first application of the product should be light enough so it does not form a film of liquid when sprayed. Apply the product to the micro fiber applicator to wet the surface of the pad and then spread the product. Do not over apply. Over application will result improper curing and possible whitening.

Allow each application to dry at least 30 to 60 minutes before applying the next application. Burnishing between applications will improve gloss and decrease cure time.

Two applications should be applied to achieve stain resistance to the surface.

Do not allow water on the surface for 24 hours. If water is allowed to stand in the first 24 hours, the product may turn white. Maximum strength and stain resistance should be attained within 48 hours.

Product can be cut as much as 4 parts water to 1 part product. Chemical resistance will be significantly affected by diluting it with water.

Maintenance

Routine sweeping, mopping, washing, and mechanical scrubbing of floors with a neutral pH cleaner are recommended. Water can be sufficient in some environments.

DO NOT USE cleaners that are either acidic or have a butyl base. The product is chemically resistant; it is susceptible to stripping with butyl degreasers and some acids.

Technical Information

Coverage	35 – 50 m ² / RTU Liter
Packaging	18.9 L (5 gallon)
Color	Milky white / clear
Gloss	Satin Finish as packaged The degree of gloss achieved is based on polishing the surface. Using a 800, 1500 or 3000 grit diamond impregnated pad (DIP), the product can be polished to a semi-gloss or gloss finish, based on the amount of time the surface is polished.
Drying Time	@ 25 °C 50% RH Temperature and humidity dependent Recoat: 30-60 minutes Light Foot Traffic: 30-60 minutes Wheeled Traffic: 2 hours

Disclaimer & Legal Notice

The above information, particularly the suggestions for application and use of NORTEC®, are based on our knowledge and experience in normal situations, provided that the product has been stored and used properly. Because of the different materials, substrates, and varied working conditions, a guaranteed work result or a liability, from whatever legal relationship, cannot be claimed from this information nor from verbal consultation, unless we are guilty of intent or gross negligence in this regard. The user must prove that he has provided NORSAs in writing with all findings required for the proper and effective evaluation, in good time and in full. The user must check the products for their suitability for the intended purpose. Changes to the product specifications are reserved. Third party property rights must be observed. Our respective sales and delivery conditions apply as well as the most current product data sheet.

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