



PRO PROTECTOR-NT

1:1 A to B

Product Information

Description:

Granicrete Pro Protector-NT with Catalyst is a Nano Technology (NT) food safe stain and acid protection system designed for protecting Granicrete's Crystal Top Epoxy. Available in both a satin and gloss finish.

Uses:

Pro Protector-NT is primarily used to coat over the top of Granicrete's Crystal Epoxy to protect against everyday scratching and stains. It can also be used for the following but is not limited to any of these uses:

- Sealing Granicrete's flooring system
- Sealing Granicrete's Shower FX system
- Sealing engineered cements and natural stones

Coverage:

Estimated coverage for a 2 pint kit over Crystal Top Epoxy is 70-90 square feet. Thinning with Xylene will help increase coverage. Xylene will prolong the food safe approval for up to 30 days.

(Coverage will vary drastically depending on the thickness and amount of coats you apply)

Surface Preparation:

Crystal Top Epoxy must cure for 24hrs before application of Pro-Protector can begin.

1. When applying over Crystal Top Epoxy it is recommended that you lightly sand the surface with 400 grit sandpaper. This step can also be used to smooth the epoxy if any dimples or imperfections were left when the surface was epoxied.
2. Wipe off surface and remove all sanding residue. Surface must be clean, dry and free of contaminants.

Moisture left on the surface can cause failures with the Pro Protector-NT. Make sure the surface is completely dry before the application process begins.

Mixing:

Granicrete always recommends mixing the individual parts in their containers for both the satin and gloss finish before mixing together. Pour equal parts of Pro Protector-NT (Part A) with Pro Protector-NT (Catalyst) into a small plastic container. Pro Protector-NT can be thinned with Xylene. Granicrete recommends thinning the Pro Protector-NT with 10-25% Xylene to improve flow, workability and pot life. Mix gently for 2-3 minutes with a paint stick. Mix only enough

product that can be applied in 30 minutes. Once the two products are mixed together they must be used within 30 minutes, do not save mixed components.

Additional Steps for Satin Finish: Part A of the satin finish must be thoroughly mixed inside its individual container. Before pouring into the mixing container Part A for the matte finish needs to be strained through two paint strainers. If the Pro Protector is not mixed thoroughly and properly strained before blended together with the catalyst it will create an undesired finish.

Application:

Application suggestions are as follows:

Option 1: Roll on one coat of Pro Protector-NT mixed with catalyst at 6-8 mil. This will give a bit more of a build to the coating allowing for finish processing. Pro Protector-NT can be applied thinner than 6-8 mil with the right applicator and when coating over a smooth epoxy finish.

A Sherwin Williams Contractor series soft woven 3/16 nap roller or Wooster Adhesive applicator in 1/8+nap make application a breeze. Always de-lint the roller before mixing product (Tape the roller with duct tape or a similar strong adhesive tape then remove tape to remove loose hairs)

Option 2: An HVLP sprayer . High Volume Low Pressure spray gun may be used, Tip size varies. Minimum tip size is 1.8mm.

- Starting from the outside edge of the countertop Make even overlapping passes at a 90-degree angle to the surface. Distance, air pressure and feed rate will be determined by your exact equipment, environment and personal preference.
- The appearance should be glossy smooth and wet, not "grainy or show any orange peel"
- Granicrete recommends the use of respirator during sprayed applications

GRANICRETE DOES NOT RECOMMEND THE USE OF A HVLP INSIDE A RESIDENTIAL HOME WITHOUT PROPER MASKING AND VENTILATION SYSTEMS.

There are several ways to finish/ adjust the final look of Pro Protector-NT depending on your personal preference the two described below seem to be the most popular.

If the Pro-Protector-NT just has a few blemishes they can be removed by using a random orbital sander with 2000-4000 grit Abralon foam pad. For this to be effective it must occur between 5 and 24 hours from the time of application.

Re-Coat:

When re-coating over existing Pro Protector-NT it must be re-coated within 45 minutes or after 12 hours. Pro Protector-NT will **NOT** cure if these times are disregarded. After 24hrs a light sanding with 400 grit is recommended.

Detail Option (After 48hr cure): Remove all blemishes and surface imperfections rendering a completely level surface.

- Use dual action sander to remove air born dust particles, and achieve desired gloss level. An 8 hole sander that you can hook a shop vac to coupled with MIRKA Auto-Net pads work well
- Starting with (400 grit) proceeding through (600 grit), (800 grit), and Trizact A5 (1200 grit). This procedure may be altered depending on your ability to apply the product free from any orange peel or other surface imperfections.
- If a gloss finish is desired you may continue on with Imperial polishing compound buffing with lambs wool buffer if required (1200 rpm max). All polishing compound should be buffed off.

Part numbers for the pads are listed below:

MIRKA Auto Net. 06

400 " " 041

600 " " 061

800 " "081

1500 Grit Abranet soft 1500.

3M 268xA Trizact # 49963 = A10 Trizact 3M ID # 60-0700-1055-2 (800 grit)

3M 268xA Trizact # 50031= A5 Trizact 3M ID # 60-0700-0909-1 (1200 grit)

Some people opt to switch to these 3M pads instead of the 800 & 1500 Autonet.

3M Imperial polishing compound and finishing material # 051131-06044

Drying Time:

When applied properly Pro Protector-NT will be dry in 3-4 hours. It will continue to harden over 7 days. It is important to keep the Pro Protector-NT If it is desired to re-coat after 24hrs it is recommend that you lightly sand with 400 grit sand paper. Do not allow the Pro Protector-NT to come in contact with the acetone within the first week of application. Acetone can cloud up the surface of the Pro Protector-NT if it is not completely cured.

Clean up & Safety:

Wear proper protective equipment noted on the MSDS. If skin comes in contact with Pro Protector-NT, Immediately wash with warm water and soap. Avoid breathing in vapors and skin contact. If working in a poorly ventilated area a respirator is recommended.

Wear Personal Protective Equipment.

Read MSDS before using this product.

DOT/Flash Point . Non-flammable Liquid Classification not regulated.

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