

# TECHNICAL DATA- TERRAZZINITE DECORATIVE SELF LEVELING EPOXY RESURFACER

Paradise Concrete Solutions

## PRODUCT DESCRIPTION:

Terrazzinite is a two component 100% solids clear epoxy binder that when combined with the unique Terrazzinite powder creates an abrasion-resistant, UV-resistant decorative flooring system that produces a granite-like appearance.

## RECOMMENDED FOR:

Concrete countertops, moulds or most settings where decorative seamless flooring is desired.

## SOLIDS BY WEIGHT:

99-100% (+/- 1%) (liquids mixed without aggregate)

## SOLIDS BY VOLUME:

99% (+/- 1%) (liquids mixed without aggregate)

## VOLATILE ORGANIC CONTENT:

Less than 2 g/l

## STANDARD COLORS:

Clear – Gardner color 1-2

## RECOMMENDED FILM THICKNESS:

1/16" applied with a V-notched 3/8" serrated squeegee

## COVERAGE PER KIT:

A small kit will yield about 50-60 square feet

## PACKAGING INFORMATION

Small kit (9.20# part A and 4.25 part B plus 18# aggregate)

Larger sizes available upon request

## MIX RATIO:

1 gallon part A to 1 half gallon part B and 18# aggregate (volumes approximate)

## SHELF LIFE:

1 year in unopened containers

## FINISH CHARACTERISTICS:

Gloss (>70 at 60 degrees @ glossmeter)

## FLEXURAL STRENGTH:

12,250 psi @ ASTM D790

## COMPRESSIVE STRENGTH:

10,500 psi @ ASTM D695

## TENSILE STRENGTH:

8,700 psi @ ASTM D638

## ADHESION:

350 psi @ elcometer (concrete failure, no delamination)

## ULTIMATE ELONGATION:

3.1%

## HARDNESS:

Shore D = 80 typical

## GARDNER VARIABLE IMPACTOR:

50 inch pounds direct – passed

## ABRASION RESISTANCE:

Taber abraser CS-17 calibre wheel with 1000 gram total load and 500 cycles= 30 mg loss

## VISCOSITY:

Mixed = 3000-4000 cps with aggregate (typical)

## DOT CLASSIFICATIONS:

Part A "not regulated"

Part B "UN2735, AMINES, LIQUID, CORROSIVE, N.O.S., 8, PGII"

## CURE SCHEDULE:

pot life (1 1/2 gallon volume).....20-40 minutes @ 70°F

tack free (dry to touch).....6-10 hours @ 70 °F

recoat or topcoat.....16-24 hours @ 70°F

light foot traffic.....24 hours @ 70°F

full cure (heavy traffic).....2-7 days @ 70°F

## APPLICATION TEMPERATURE:

50-90 degrees F with relative humidity below 85%. When the R.H. exceeds 70%, let the material induct for 15 minutes before applying (remix before using)

## CHEMICAL RESISTANCE:

REAGENT	RATING
Acetone	B
Methanol	C
Ethanol	C
MEK	B
Xylene	C
Toluene	B
30% Ammonium hydroxide	B
50% Sodium hydroxide	C
6% Sodium hypochlorite	C
10% Nitric acid	B
10% hydrochloric acid	B
50% sulfuric acid	B
10% Acetic acid	A
10% Lactic acid	B

Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion. NOTE: extensive chemical resistance information is available through your sales representative.

## PRIMER:

Suitable water based, solvent based or high solids epoxy primer

## TOPCOAT:

Not necessary, but for improved chemical resistance, a suitable urethane or polyaspartic topcoat can be used.

## LIMITATIONS:

\*Color stability or gloss may be affected by high humidity, low temperature, chemical exposure or lighting such as sodium vapor lights.

\*Colors may vary from batch to batch. Therefore, use only product from the same batch for an entire job.

\*Apply a suitable primer before using this product.

\*This product is not UV color stable. Clear aliphatic urethane topcoats reduce (UV light) color changes.

\*Data based on neat resin without aggregate.

\*Mixtures of chemicals and applications with exposures to chemicals at elevated temperatures should be thoroughly evaluated before applying.

\*It is best to not expose this product to water until fully cured.

\*Substrate temperature must be 5°F above dew point.

\*All new concrete must be cured for at least 30 days prior to application.

\*See reverse side for application instructions.

\*Physical properties are typical values and not specifications.

\*See reverse side for limitations of our liability and warranty.

## MIXING AND APPLICATION INSTRUCTIONS

**PRODUCT STORAGE:** Store product in an area as to bring the material to normal room temperature before using. Continuous storage should be between 60 and 90 degrees F. Low temperatures or great temperature fluctuations may cause product crystallization.

**SURFACE PREPARATION:** The most suitable surface preparation would be a fine brush blast (shot blast) to remove all laitance and provide a suitable profile. All dirt, foreign contaminants, oil and laitance must be removed to assure a trouble-free bond to the substrate. A test should be completed to determine that the concrete is dry; this can be done by placing a 4'X4' plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate is dry enough to start coating. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbonding.

**PRODUCT MIXING:** This product has a mix ratio of one full gallon (approx. 9.20#) part A to one full half gallon (approx. 4.25#) part B and one 18# bag of aggregate powder blend. Standard packages are in pre-measured kits and should be mixed as supplied in the kit. We highly recommend that the kits not be broken down unless suitable weighing equipment is available. After the two liquid parts are combined, add in the provided aggregate and mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak-free. After mixing, transfer the mixed material to another pail (the transfer pail) and again remix. The material in the transfer pail is now ready to be applied on the primed substrate. Remix occasionally to prevent settling of aggregate. Improper mixing may result in product failure.

**PRIMING:** A suitable primer should be used before applying this product. See the front side of this technical data for primer information. If a primer is not used, more porous substrates may cause outgassing and possible surface defects.

**PRODUCT APPLICATION:** The mixed material can be applied with a 3/8" V-notched serrated squeegee at the recommended thickness, then back roll (very lightly) with a spike roller cover. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process.

**RECOAT OR TOPCOATING:** If you choose to topcoat this product, you must first be sure that the coating has tacked off and then the surface should be lightly deglossed to insure a trouble-free bond prior to application of recoats or topcoats. Always remember that colder temperatures will require more cure time for the product before recoating or topcoating can commence. Before recoating or topcoating, check the coating to ensure no epoxy blushes were developed (a whitish, greasy film, or deglossing). If a blush is present, it can be removed with a standard-type detergent cleaner prior to topcoating or recoating. Many polyaspartic and urethane coatings are suitable for use as topcoats.

**CLEANUP:** Use xylol.

**FLOOR CLEANING:** Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

**RESTRICTIONS:** Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle. Dependent on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry.

## NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY

*We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT. We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.*