

DECORPOXY™ TC

Epoxy Top Coat



DESCRIPTION

Decorpoxy™ TC is a 100% solids two component epoxy top coating system consisting of a compound resin (Part A) and a catalyst or hardener (Part B). Decorpoxy™ TC is characterized by a fast-curing time and was developed as a topcoat for Decorpoxy™, Decorpoxy™ BM troweled applied flooring. Decorpoxy™ TC produces a durable coating surface, which is ideally suited to industrial and institutional requirements.

USES

Decorpoxy™ TC is used as a grout coat and top coat system for epoxy mortars and broadcast systems.

PRODUCT ADVANTAGES

- 100% solids
- Choice of many colors
- Moisture insensitive
- Endless design possibilities
- USDA approved

COLORS

Clear, dark gray, medium gray, light gray, off white, white, beige, tile red, light blue, tan, brown, blue, green. Custom colors available with volume order.

YIELD/COVERAGE

200 sf/gal at recommended thickness.

PACKAGING

1.5-gallon kit

SURFACE PREPARATION

All dirt, oil, dust, foreign contaminants, peeling coating and laitance must be removed from surface prior to coating to assure a trouble-free bond. Previously coated floors exhibiting a strong bond to surface can be coated over by sanding down the existing coating. Refer to Garon's Master Surface Preparation & Moisture Guideline for complete details.

MIXING AREA

Select a suitable mix area and protect the floor surface from accidental resin spillage with a layer of cardboard and/or plastic sheet. Provide enough space for free unimpeded movement for mixing activity.

| Typical Technical Data For Decorpoxy™ TC | |
|--|---|
| Mix Ratio (by volume) | 2:1 (2 parts A, 1 part B) |
| Set Time (at 70°F) | Recoat: 6 – 8 hours Light traffic: 10 – 12 hours Full cure: 2 – 7 days at |
| Storage | Store at room temperature |
| Flexural Strength (ASTM D 790) | 8400 psi ½" x ½" bars span 4". |
| Flexural Modulus (ASTM D 790) | 420,000 psi ½" x ½" bars span 4". |
| Yield Compressive Strength (ASTM D 695) (at 10% deformation or less) | 10,700 psi ½" x ½" bars span 4" |
| Compressive Modulus (ASTM D 695) (at 10% deformation or less) | 1,000 psi ½" x ½" bars |
| Tensile Strength (ASTM D 638) | 6900 psi Testing Dimensions of F=2.25", W=0.500", T=0.125", D=4.5", and Rate = 0.2"/Minute |
| Izod Impact Strength (ASTM D 256) | (Ft. lb. / In. notch) = 3.1 ½" X ½" x 2" bars |
| Ultimate Elongation with testing dimensions of F=2.25", W=0.500", T=0.125", D=4.5", and Rate = 0.2"/Minute | 2.9% |
| Abrasion Resistance | 36 mg loss (Taber CS-17) 1000 gram load with 500 cycles |

| Electrical Properties* | |
|----------------------------------|-------------------------------|
| Dielectric Constant (ASTM D 160) | 3.8 |
| Dissipation Factor (ASTM D 160) | 0.01 |
| Volume Resistivity (ASTM D 257) | 3.6 X 10 ¹⁵ Ohm-Cm |
| Surface Resistivity (ASTM D 257) | 8.1 X 10 ¹⁵ Ohm-Cm |

The more comfortable your surroundings in the mix area, the less likely your mixers are to have an error. Have all necessary tools ready: slow speed drills, mix and measure containers, etc. Do Not Start Mixing Epoxy Materials until Ready for Immediate Use. Once hardener and resin are combined, it must be used immediately. Prior to mixing apply masking tape wherever coating is intended to stop. Keyed edges must be installed at edge termination points to

protect the material from chipping damage and to obtain a clean, straight edge.

ASTM D 4259-83 Standard Practice for Abrading Concrete.

ASTM D 4258-83 Standard Practice for Surface Cleaning Concrete for Coating.

ASTM D 4260-83 Standard Practice for Acid Etching Concrete.

ASTM D 4262-83 Standard Test Method for pH of Chemically Cleaned or Etched Concrete Surfaces.

MIXING

Mix Part A and Part B together at slow speed, scraping the sides and bottom of the container, until the contents are thoroughly mixed.

APPLICATION & PLACEMENT

Apply mixed Part A & Part B epoxy with a FLAT squeegee. A 10" or 12" handle can be added to the squeegee to extend reach. The paint roller should have a long (5') handle. Pour a 4"-6" ribbon of blended Decorpoxy™ TC on the floor. Bend forward and spread the epoxy by moving the squeegee in a continuous semi-circular movement from left to right, right to left. At the same time moving backward slowly and pulling the Decorpoxy™ TC epoxy with you. Pull the blended epoxy over the same area twice to force epoxy into Treflite™ or Decorpoxy™ mortar. Move squeegee slowly and apply sufficient pressure to obtain a uniform appearance. Avoid leaving puddles and squeegee marks. Then walk onto the surface with spiked shoes and back roll the applied area with a 3/8" non-shed roller. Back-roll in a perpendicular direction to achieve uniform appearance.

After Decorpoxy™ TC has cured enough to allow foot traffic (approximately 15 - 20 hours at 70°F.); you can apply a second topcoat of Decorpoxy™ TC to obtain a finish ranging from skid-resistant surface to a smooth surface. However, best results are obtained with at least one subsequent topcoat application. Garon Grit 120, Garon Grit 240 & Decorpoxy™ aggregate can be broadcast into Decorpoxy™ TC for added texture.

NOTE: Temperature and humidity are major factors in determining cure time. Typically, cure times can double with each 10°F. drop in temperature. Cure times can reduce by half with each 10°F. increase in temperature. Allow enough time for the material to cure. If you choose to topcoat the applied mortar, remember that Decorpoxy™ TC will need more time to cure as temperatures go lower. Always check the previous coat for contamination before recoating and clean or prepare it if necessary.

Do not open the area to harsh industrial chemicals or abusive use before the material has fully cured.

PRECAUTIONARY STATEMENT

Although every effort is made to accurately depict the chemical resistance characteristics of this product, the data reflects only one test run at a specified temperature. Combinations of chemicals and varying temperatures can significantly modify the chemical resistance. This product has shown a tendency to discolor (translucent white film) in some applications.

| REAGENT | 7 Days | 28 Days | 120 Days |
|-----------------------|--------|---------|----------|
| 30% Sulfuric Acid | 0.7 | 1.3 | 3.9 |
| 10% Nitric Acid | 0.4 | 1.4 | 2.7 |
| Acetone | 1.4 | 3.8 | 5.7 |
| Toluene | 3.1 | 6.5 | 9.9 |
| Ethyl Alcohol | 2.7 | 4.7 | 6.9 |
| 5% Acetic Acid | 4.4 | 7.1 | 11.8 |
| Water | 0.42 | 0.65 | 1.24 |
| 50% Sodium Hydroxide | 0.1 | -0.1 | -0.15 |
| 36% Hydrochloric Acid | 0.6 | 1.7 | 2.3 |

CHEMICAL RESISTANCE

These figures represent a weight gain, unless preceded by a minus sign. A minus sign indicates weight loss, which shows leaching. Absorption and leaching occur to some degree simultaneously in all testing. Testing was carried out on discs 1.75" in diameter and 0.2" thick.

MAINTENANCE

Most standard floor cleaners, cleaning fluids or detergents will not damage the coating. Be sure to test compatibility first. Frequent cleaning will not harm the seal, but do not use abrasive black floor pads, Nylogrit pads, or sandpaper. If you use a floor machine, we recommend using bassine brushes, particularly if you opt for slip-resistant coating systems. Mechanical scrubbers will diminish the gloss but will not harm the coating.

CHEMICAL RESISTANCE

This product is resistant to most common chemicals. Please refer to Garon's Chemical Resistance Chart for actual resistance to specific chemicals/reagents.

SLIP & FALL HAZARDS

Ensure cured coating surface remains dry in pedestrian, equipment and vehicular areas to avoid slips and falls of people, equipment and vehicles. Use caution when coating is wet or when oil, hydraulic fluids, grease or other chemicals, fluids or agents that may produce a slick surface are present. Increase slip resistance by broadcasting an appropriate size aggregate into the wet coating during application in all areas where enhanced coating traction may be necessary. Be aware of the full cure time. Do not open the area to normal service, harsh industrial chemical or abusive use before the coating is fully cured.

CLEAN UP

Contain spills. Ventilate area. Use absorbent materials to collect. Dispose of according to local, state, federal regulations. Mixed components — uncured material can be removed with an approved xylene or ketone solvent. Cured material must be removed by mechanical means.

COLOR

Applied samples, color charts, illustrations and reproductions in catalogs and other Garon publications are not guaranteed to match the color shades of materials ordered. Colors or clarity for clear may be affected by high humidity, low temperatures, or chemical exposure. Tire contact may cause discoloration. Slight lot-to-lot color variations may occur. Light or bright colors (white, safety yellow, etc.) may require multiple coats or a suitable color coordinated primer to achieve a satisfactory hide. When ordering to match a previous color, inquire if the same lot number or quality control number is still available. Colors may vary from batch to batch, therefore, use only product from the same batch for an entire job.

FIRST AID

Skin contact- wash thoroughly with soap & water. If any product gets into the eye, rinse immediately and repeatedly with water for at least 15 minutes. For respiratory



problems, remove person to fresh air. Wash clothing before re-use. Dust may cause skin or eye irritation. Wear gloves, eye and nuisance protection. CONSULT MSDS and call for medical care if necessary.

DISCLAIMER

The information and recommendations set forth in this document are based upon tests conducted by or on behalf of Garon Products, Inc. Such recommendations and information set forth herein are subject to change and pertain to the product(s) offered at the time of publication. Published technical data and instructions are subject to change without notice. Consult www.garonproducts.com or call 800-631-5380 to obtain the most recent Product Data, SDS and Application instructions.

LIMITATIONS

The user is responsible for proper application.

THIS PRODUCT IS FOR INDUSTRIAL AND PROFESSIONAL USE ONLY

CAUTION

Follow the Hazardous Materials Identification System labeling guide for proper personal protective equipment to use when handling this product. Use only as directed.

Keep container tightly closed. Not for internal consumption--consult SDS for additional information. This product is for professional use only.

KEEP OUT OF REACH OF CHILDREN

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