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|  |  | |  | | --- | | ***Product Description:*** |   100% Solids Epoxy is a two component, high performance modified cycloaliphatic epoxy concrete floor coating system. Its epoxy chemistry provides excellent bonding characteristics. It can be applied as a 12 to 50 mil coating system. Paint Chips or Color Quartz can be broadcast into the Epoxy to create a custom look. Its design features provide for the highest industrial and commercial demands.  The uniqueness and universality of 100% Solids Epoxy’s chemistry facilitates the applications where USDA Food & Beverage and other regulatory requirements must be obtained. i.e. food manufacturing and preparation, pharmaceutical manufacturing and dispensaries, clean rooms, commercial kitchens, laboratories and more. Other areas of use include: garage floors, rest rooms, manufacturing facilities, automotive showrooms and schools. |  |  | |  | | --- | | Product Characteristics: | | |  |  | | --- | --- | | Color: | Clear, Light Gray, Medium Gray, Dark Gray, Beige, Tan, Black, White | | Mix Ratio: | 2:1 | | Solids: | 100% | | VOC: | Compliant | | Application Temp: | 55-90 F | | Coverage: | 200 sqft/gal | | |
|  |  | |  | | --- | | ***Advantages:*** |  * + Essentially odorless   + Self-priming over properly prepared substrate   + VOC Compliant   + High color stability   + High gloss   + Withstands medium traffic as thin as 12 mil   + Chemically resistant   + No amine blush |  |  | |  | | --- | | ***Drying Schedule*** |  |  |  | | --- | --- | | Working Time | 20-30 minutes | | Critical Recoat time | 12 hours | | Light Traffic | 12 hours | | Full Cure | 7 days |   Pot Life: 20-30 min @ 75°F |
|  |  | |  | | --- | | ***Physical Properties::*** |  |  |  |  | | --- | --- | --- | | **PROPERTY** | **VALUE** | **REFERENCE** | | Compressive Strength | 7,800 psi | ASTM C 695 | | Flexural Strength | 3,700 psi | ASTM D 790 | | Tensile Strength | 3,900 psi | ASTM D 638 | | Bond to Concrete | 350 psi | ASTM D 4541  Concrete fails at this point | | Taber Abrasion | 75-80 Mgs | ASTM D 4060 | | Flammability | Self-extinguishing |  | | Hardness, Shore D | 84 | ASTM D 2240 | | Flash Point | >200°F |  | |  |  | |  | | --- | | **Shelf Life:** | | Part A: 12 months, unopened  Part B: 12 months **,** unopened | | Store Indoors at 65°F to 95° F | | ***Cleanup:*** | | Clean tools and equipment with acetone or xylene immediately after using. Wash hands and skin with soap or industrial hand cleaner, not with solvent. Cured material must be removed mechanically. | | ***Safety:*** | | Refer to SDS sheet before use.  Handling Precautions  Use only with adequate ventilation. Appropriate cartridge-type respirator must be used during application in confined areas. Avoid contact with skin. Some individuals may be allergic to epoxy resin. Protective gloves and clothing are recommended. | |
|  |  | ***Limitations:*** |  |  | Shipping: |
|  |  | Strictly adhere to the Manufacturer’s Directions for Applications.   |  | | --- | | ***Preparation:*** | | Before coating is applied, concrete must be:   * Dry – No wet areas * Clean – Contaminants removed * Profiled – Surface etched * Sound – All cracks and spalled areas repaired   Note: Mechanical preparation is the preferred method of preparing concrete for coating application. Shot-blasting, diamond grinding, and scarifying are all acceptable methods. | | ***Application:*** | | Application of 100% Solids Epoxy for a nominal 20 to 30 mil coating system is applied in two coats and in one pass as a top coat. For estimation purposes, use 200 SF per gallon in either case.  1. Always apply in descending temperatures. Concrete is porous and traps air. In ascending temperatures (generally mornings) the air expands and can cause out gassing in the coating. It is safer to apply coatings in the late afternoon, especially for exterior applications.  2. Optimum ambient temperature should be between 55-90°F during application. Note: Cure times are affected by ambient and slab temperatures. Temperatures of 55°F and lower can slow cure times. Temperatures of 85°F and higher will speed up working and times.  3. Mix three gallons of resin using above mixing instructions.  4. Apply approximately 200 SF per gallon (150 SF per gallon for a top coat over Industrial Quartz systems) by immediately pouring out on surface in a ribbon, while walking and pouring at the same time until bucket is empty.  5. Using a squeegee on a pole, pull 100% Solids Epoxy over substrate. As a first coat over bare concrete, pull resin as thin as possible while still wetting out concrete and uniformly covering surface. This allows trapped air to escape more easily.  6. Using a 3/8” non-shedding phenolic (plastic) core paint roller, roll coating forwards and backwards.  7. Broadcast Color Chips/Micro Chips (at 16 lbs. per 100 sq. ft.) by tossing them into the air and allowing them to gently rain down into the wet resin.  8. For a random broadcast, use 1 lb. of chips per 100 sq. ft..  9. Allow to cure. Then scrape the basecoat with a floor scraper in all directions. Vacuum small pieces and dust.  Silica Sand Broadcast  1. Following Step 6 above, gently throw the silica sand up into the air, allowing it to fall without lumping in one spot or moving the resin, until the floor is totally saturated with the silica sand and the resin will not accept any aggregate. This generally requires 1/2 to 3/4 lbs. per sq. ft. Allow to dry for 6-8 hours.  2. Sweep floor and stone any high spots.  3. Following either method, apply seal coat of Polyaspartic at approx. 150 sq. ft. per gallon. |  | |  |  | Contact Manufacturer for Details   |  |  |  |  | | --- | --- | --- | --- | | |  | | --- | | ***Testing:*** | | All surfaces are not the same. It is recommended that a sample area be done before the start of the project. The test should be done on-site, using the pro- posed method by the assigned applicator to insure proper adhesion and color. A sample area should also be done on any existing coatings to determine if any contaminants exist or if delaminating will occur. | | ***Packaging:*** |   **1.5 Gallon Kits:**  Part A ......................... 1 gal.  Part B.......................... 1/2 gal.  **15 Gallon Kit**  Part A ......................... 10 gal.  Part B.......................... 5 gal. | | ***Disclaimer:*** | | The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of Terrazeco, LLC. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Contact your local dealer to obtain the most recent Product Data Information.  **WARNING! SLIP AND FALL PRECAUTIONS**  OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slip resistance on pedestrian surfaces. The current coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. Terrazeco recommends the use of angular slip resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions.  It is the contractor and end users’ responsibility to provide a flooring system that meets current safety standards. Terrazeco or its sales agents will not be responsible for injury incurred in a slip and fall accident. | | Ground level concrete slabs emit invisible moisture vapor. The allowable moisture emissions for concrete are 3 lbs / 1,000 SF over a 24 hour period. If moisture is above this level, then blistering and delamination of coating may occur. A calcium chloride test should be performed to determine concrete moisture level. If moisture levels exceed the 3 lb. limit, a concrete moisture vapor control system should be used first before applying coating system. Please contact the Terrazeco technical department for approved systems. Coating systems are susceptible to cracking if the concrete moves or separates below the coating. Hence, joint and crack treatment should be reviewed prior to coating application. As a general rule, control joints (saw cuts) and random cracks should be saw cut or chased first then filled with Patch or similar approved hard epoxy product. Construction joints (two slabs which meet and hence move) should be treated. After the coating has been applied and cured, saw cut through the coating over construction joints and apply an elastomeric caulking.  Made in USA  http://blackbear-martialarts.com/wp-content/uploads/2013/02/tsd-us-flag.jpg | | Warranty: | | Terrazeco offers a full year limited warranty on materials from date of purchase. Warranty will provide free material replacement of the product in the event that Terrazeco, materials prove defective and provided materials are installed in strict compliance of **“Directions for Application”** by a certified applicator.  Terrazeco will not be responsible for any consequential damages caused by product failure. | |