



TRU Tint

CHEMICAL REACTIVE ACID STAIN FOR CONCRETE

PRODUCT DESCRIPTION: TRU Tint acid stains are metallic salt based formulations which penetrate into and chemically react with calcium hydroxide (free lime) found in cured concrete or other cement based substrates, to form new durable surface colors with random mottling effects. Tru Tint acid stains contain no light sensitive dyes or additives and can be used in interior or exterior applications with a few exceptions (see Limitations). Tru Tint acid stains will penetrate the applied cement surface typically up to 1/8 inch (3mm) depth, and the subsequent reaction forms new insoluble chemical compounds that permanently color the concrete in a wide range of earth tone shades. Tru Tint acid stains can be used for decorative concrete including flatwork, stamped and textured concrete, concrete counter tops, concrete masonry units, stucco, mortar, grout, and most any other portland cement based surface.

BENEFITS: Tru Tint acid stains turn ordinary concrete into beautiful, natural colors that exhibit a mottled, shaded variation in appearance and tone. This is a great alternative to ceramic tile, marble, granite or any other floor covering treatment where a random look is desired. Tru Tint stains are unlike high maintenance and less durable paints or tinted sealers and do not leave any resin film or polymer at the surface that is subject to wear or fading. When properly maintained, Tru Tint acid stains will last as long as the concrete surface to which they are applied, and thereby offer high life cycle value.

LEED VERSION 2.1 CREDITS: (Environmental Considerations): MR Credit 1.2-Building Re Use, MR Credit 3.2-Resource Re Use: Stains can be applied to properly prepared existing concrete. Other considerations: Stains require less raw material and energy than do other types of finishes. Stained concrete is almost a permanent finish, with proper maintenance, color stains will last for as long as the concrete surface. Stained concrete does not support mold or fungi. Stained concrete can be recycled along with other concrete debris at the end of a structure's service life.

COMPOSITION: Tru Impressions Tru Tint stains contain water, inorganic acid(s), metallic salts, and wetting agents.

COLORS AND FINISHES: It is important to note that the color of Tru Tint acid stain as a liquid, or when initially applied, is not representative of the actual color that will develop after it has had time to react with the concrete. Stains will usually appear lighter upon application, but will develop their true darker colors 2-4 hours after initial application. The final appearance of the stained surface will vary according to application technique and the absorption and composition of the concrete. Tru Tint stains are available in a range of 16 different colors which can be interblended or overlapped to allow an extended variety of color tone possibilities. Tru Tint stains are normally used full strength for concentrated coloring of the substrate, however, they can be diluted as needed for lighter colored variations or effects. When diluting, always add acid to water to avoid splattering. For lighter end colors, Tru Tint acid stains are typically applied over concrete made with White Portland Cement, light color shade Dust On Color Hardener blends or TI Over-eze white overlayment.

COVERAGE: Coverage is approximately 250-300 square feet per gallon. Coverage may be less if concrete is very rough or absorptive, applications conditions are hot or windy, or if applied in thick coats or multiple applications.

INSTALLATION-TEST AREA: Because of the wide variation in end colors obtained with Tru Tint stains, a small test application should always be performed on the surface to be treated, preferably in an area that is unobtrusive and not in the main section of the jobsite, since sealed surfaces cannot be retreated. The test area should be applied, neutralized, and sealed in the same manner as instructed before approving the color and proceeding with scale up to the entire floor.

SURFACE PREPARATION: DO NOT ACID ETCH CONCRETE PRIOR TO APPLICATION. Do not use hydrochloric based acid or any other acid based cleaners on the floor prior to the Tru Tint acid stain application since this can lessen the reaction and resulting degree of penetration.

NEW CONCRETE: Finish in accordance with ACI specifications and allow to cure for a minimum of 14 days, however a time of 28 days is preferred for best results. Curing should be by water misting only, surface applied curing compounds should not be applied since they will inhibit the penetration of the stain. Concrete to be stained should darken and be able to absorb water when dampened. Some hard troweled, burnished or overly polished surfaces may not absorb water, therefore, they may have to be lightly sanded or abraded to open up surface capillarity and allow stain penetration.

OLD CONCRETE: Surfaces must be clean and free from oil, paint, wax, sealers, curing compounds, related surface stains, rubber marks, dirt and laitance. Use TI C cleaner/degreaser for removing grease, oil, or rubber marks, taking care to rinse the surface completely with potable water afterwards. Use plastic tarps to protect surrounding surfaces, structures and plant vegetation against Tru Tint acid stain overspray or contact. Tru Tint acid stains will react differently on older or worn substrates and will not typically show as strong of an effect as on newer, more absorbent surfaces.

STAIN APPLICATION: Tools and application sprayers and containers must be acid resistant and made of plastic or wood with no metal components. Invert and gently shake Tru Tint acid stain containers several times to eliminate any settlement that may have occurred over time. Apply with a plastic sprayer in a small circular motion, or by use of a stiff bristle brush (acid brush) in between spraying to aid penetration into the substrate. Sprayers can provide a more even finish when used alone, whereby brushes applied in circular motions can **STAIN APPLICATION (CONTINUED):** create more varied and mottled appearances. It is very important to always keep a "wet edge" on the applied surface, take care to avoid dry laps where wet stain overlaps dried stain. Dry laps will cause visible lines and must be minimized or avoided. Do not allow the stain to puddle. Foaming or fizzing will take place as the Tru Tint acid stain reacts with the cement surface. When the foaming stops, do not apply any of this "used solution" to new uncolored sections of concrete, always apply fresh stain to untreated areas for consistency and uniformity. Do not leave application bucket or tools inside the stained area as they can leave permanent imprint marks on the surface. Do not wash off stain in between coats if a second application is desired for darker effect. Allow the stained surface to cure overnight. The next day, sweep or scuff off dried residue. Note- Residue may contain acidic compounds and should be disposed of in accordance with local regulations. Next, neutralize the surface by mopping with a solution of ½ cup (50 ml) ammonia to 1 gallon (3.8 liters) water. Baking soda or T.S.P. (Tri Sodium Phosphate) can be used in place of ammonia if necessary. After neutralization step, flood the surface with clean water, then wet-vacuum the area, and repeat until stain residue is completely removed. It is very important that the substrate be clean of any residue before applying concrete sealer to ensure proper bond. Note- the color of the wet surface will look similar to the finished appearance after application of the sealer of choice. Contain the area from pedestrian traffic and allow to dry using circulation fans to speed the drying process. Wait 24 hours minimum before sealing, making sure that all control joints and corners are dry before applying any sealers. Applying sealers over areas that still contain moisture can cause "blushing" of the sealer which is hard to remove. TI Stampsheen (solvent based) or Stampsheen H2O (water based) acrylic sealers are typically used over acid stain applications for both color enhancement and protection. For a slip resistant finish, use Tru Grip additive into the topcoat of the sealer. Follow all sealer instructions on both product data sheet and label. Prevent pedestrian or vehicle traffic for 48-72 hours. For interior applications, it is recommended to topcoat the sealer with a high gloss floor polish such as TI Floor Shine, which acts as a renewable wearing surface that will extend the life of the sealer while providing additional protection and easy maintenance.

LIMITATIONS: Tru Impressions Tru Tint acid stains will not produce a uniform color or appearance! Results will vary unpredictably depending on variations in application technique and texture, composition, and preparation of the concrete surface. Tru Tint acid stains do not hide or cover blemishes in the concrete. Some stains, footprints, defects, etc. may become more visible after staining. Blue or green based colors including Teal, Cancun, Turquoise, Candy Apple, Cactus, and Evergreen are to be used for interior only applications since they may darken or blacken over time when exposed to excessive moisture from rain or sprinklers. In interior applications, the subgrade must be well drained and not subject to excessive hydrostatic pressure or moisture vapor emission rates (over 3 lbs./1000 square feet), which may also contribute to surface darkening of these colors over time.

CAUTIONS: Tru Tint acid stains should not be applied if ambient temperatures are below 50°F (10°C) or above 85°F (29°C), or in conditions of high wind and blowing dust. Before beginning application of the stains make a neutralizer solution of 1 pound of baking soda into 5 gallons of water. Keep this solution near the work area in case of personal contact with acid. Pozzolan additives in concrete (such as fly ash, ground blast slag, silica fume, and high reactivity metakaolin) consume calcium hydroxide and may reduce the intensity of color created. Tru Tint acid stains, sealers, and floor finish waxes are not currently approved for use in food contact or food handling surfaces such as countertops or food preparation areas.

WARNINGS: DANGER- CORROSIVE LIQUID, CONTAINS ACID, WHICH CAN BURN SKIN AND EYES! Tru Tint acid stains are for use by qualified professional contractors and trained applicators. Apply in well-ventilated space. Wear protective clothing, an OSHA/NIOSH approved hydrogen chloride respirator, splash resistant eye protection and impervious gloves when handling. Avoid prolonged skin contact-wash skin with soap and water if exposed to avoid irritation. Before using this product, refer to product M.S.D.S. (Material Safety Data Sheet) for further health and safety information. Keep containers closed when not in use and dispose of accordingly. Keep away from food and drink. Do not take internally. **FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. FOR EMERGENCIES ONLY, CALL CHEMTREC AT 1-800-424-9300.**

H.M.I.S. CODES (Hazardous Materials Identification System): HEALTH = 3, FLAMMABILITY = 0, REACTIVITY = 2, PERSONAL PROTECTION = H. **HAZARDOUS INGREDIENTS:** Section 313 Supplier Information: This product contains the following chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know-Act of 1986 and of 40CFR 372. Hydrochloric Acid, OSHA PEL = 7.0 mg/m³, ACGIH-TLV = 7.0 mg/m³, CAS# 7647-01-0

FIRST AID: Eye Contact: Flush eyes with clean water for 15 minutes. Contact physician immediately. **Skin Contact:** Wash skin with soap and water or neutralizing solution made as described above, see physician if irritation persists. **Ingestion:** Do not induce vomiting. Give milk of magnesia or water, and immediately call a physician / poison control center. **Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. Seek a Physician Immediately. **SHIPPING D.O.T. CLASS:** ITEM 33880, SUB 2, LTL 75 CONCRETE STAIN - WATER BASE - REGULATED BY D.O.T. HYDROCHLORIC ACID, HAZARD CLASS 8, UN 1789, PACKING GROUP III with the exception of colors: Cancun, Lavender, Turquoise and Candy Apple = PHOSPHORIC ACID, UN 1805, PACKING GROUP III

PACKAGING: 1 gallon bottles (4 gallons / case) **STORAGE:** 40° to 90° F. Keep from freezing and out of direct sunlight if possible. **SHELF LIFE:** 1 year properly stored

LIMITED WARRANTY: This product is warranted to be of merchantable quality when used according to the instruction herein. It is not warranted to be suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is limited to the replacement of the product as purchased, if found to be defective upon inspection by the manufacturer. This limited warranty

is issued and accepted in lieu of all other expressed warranties and explicitly excludes liability for consequential damages. Buyer assumes all risk and liability resulting from the use of this product. Revised: 09-10-08