



TRU® Self-Leveling

Topping, Resurfacer, Underlayment



Highlights:

- **DECORATIVE**
 Designed specifically for polishing and decorative flooring applications
- **VERSATILE**
 Use as a topping, resurfacer or underlayment, incorporate integral colors and aggregates to create numerous design possibilities
- **FAST TRACK**
 Foot traffic in 2-3 hours, coat or seal in 24 hours
- **INDOOR/OUTDOOR**
 Durable in dry and wet areas
- **HIGH STRENGTH**
 5000 psi (34 MPa) in 24 hours, 6500 psi (45 MPa) in 28 days

MANUFACTURER:

CTS Cement Manufacturing Corp.
 11065 Knott Ave., Suite A
 Cypress, CA 90630
 Tel: 800-929-3030
 Fax: 714-379-8270
 Web: www.ctscement.com
 E-mail: info@ctscement.com

PRODUCT NAME:

Rapid Set® TRU® SELF-LEVELING

DESCRIPTION:

Rapid Set TRU SELF-LEVELING is an advanced hydraulic cement-based, self-leveling topping, resurfacer and underlayment that can be used both indoors and outdoors. TRU rapidly levels, maintains workability for 30 minutes, and produces a smooth, strong surface with high bond strength. TRU is ready for foot traffic in 2-3 hours and ready for coatings in about 12 hours. TRU is a one-component system that is durable in dry or damp conditions.

APPLICATIONS:

Use TRU when a high quality, fast topping, resurfacer or underlayment is required. TRU is ideal for projects that need long flow life and working time while achieving high early strength. TRU cures to a light off-white color and is ideal for stained, integrally colored and decorative embedded aggregate flooring. It also grinds and polishes exceedingly well, making it ideal for polished decorative floors.

ENVIRONMENTAL ADVANTAGES:

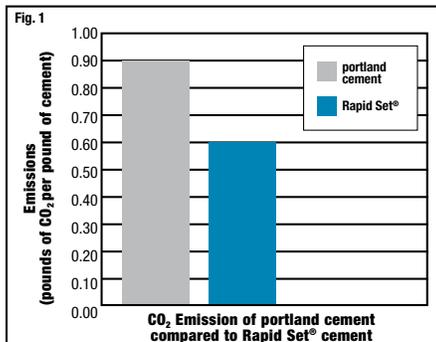
Use TRU to reduce your carbon footprint and lower your environmental impact. Production of Rapid Set cement emits far less CO₂ than portland cement. Contact your representative for LEED values and environmental information.

SURFACE PREPARATION:

Substrate must be clean, sound, and free of oil, curing compound, dust, mastic and other bond breakers. Surface should be ICRI CSP 3 - 5. Mechanical methods of surface preparation such as shot blasting are preferred. Acid etching the substrate is not recommended. Surface must be dry, have a minimum temperature of 50°F (10°C) and be properly primed.

PRIMING:

When placing TRU as a decorative topping, Rapid Set® TXPTM Epoxy Primer with sand broadcast to refusal is the preferred method of priming. When TRU is not being placed as a finished floor, Rapid Set® Acrylic Primer may be applied to the prepared concrete substrate. Follow all product specifications.





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MIXING: Add one bag of Rapid Set[®] TRU[®] SELF-LEVELING to 4.5 quarts (4.3 L) of potable water. Mix 3 - 5 minutes until the mixture is smooth and lump free. Avoid mixers that entrap large amounts of air. Mixed TRU should be used within 30 minutes at 70°F (21°C). Maintain material temperature above 50°F (10°C).

PLACEMENT: Arrange work area to permit continuous placement without cold joints. Pour or pump the TRU onto the prepared and primed substrate with a minimum thickness of 1/8" (3.2 mm) over the highest point. All existing joints and moving cracks must be honored up through the topping. TRU will flow and level out within its 15 minute flow life. Use a gauge rake, spreader or other tools to coax the material into place as required. Use a porcupine-type roller to remove any entrapped air. For thicknesses greater than 1.5" (3.8 cm), extend each 50-lb (22.7-kg) bag of TRU with 25 lbs (11.3 kg) of clean, dry 3/8" (9.5 mm) pea gravel.

CURING: No wet curing is required under normal conditions at 70°F (21°C). If used in exterior applications, apply a fine water mist to the newly hardened surface of TRU as soon as it can be done without marring the surface, and continue until one hour after final set. Avoid excessively dry, windy, hot or sunny conditions.

Adhesives, thin set or paint can be applied after 6 hours. If used as a topping that will receive traffic, a high-quality sealer or epoxy can be applied per the manufacturer's recommendations after 12 hours. TRU is not recommended in locations where deicing salts will be used.

COLD WEATHER: Environmental and material temperatures below 70°F (21°C) may delay setting time and reduce the rate of strength gain. Lower temperatures will have a more pronounced effect. Thinner sections will be more significantly affected. To compensate for cold temperatures, keep material warm, use heated mix water and follow ACI 306 Procedures for Cold Weather Concreting.

WARM WEATHER: Environmental and material temperatures above 70°F (21°C) may speed setting time and increase the rate of strength gain. Higher temperatures will have a more pronounced effect. To compensate for warm temperatures, keep material cool, use chilled mix water and follow ACI 305 Procedures for Hot Weather Concreting. The use of Rapid Set[®] SET Control[®] set retarding admixture will help offset the effects of high temperatures.

YIELD & PACKAGING: TRU is available in 50-lb (22.7-kg) polyethylene-lined bags. Yield is 0.45 ft³ per 50-lb (22.7-kg) bag. Coverage is 22 -24 ft² (2.0 m² - 2.2 m²) at 1/4" (6 mm) thickness and 11-12 ft² (1.02 m² - 1.11 m²) at 1/2" (12.7 mm) thickness for flat surfaces.

SHELF LIFE: One year when stored in cool, dry conditions, out of direct sunlight.

USER RESPONSIBILITY: TRU is a rigid, non-structural topping, resurfacer, and underlayment. It is impossible to predict the appearance of micro-cracking in a non-structural topping and such overlayers may not be capable of restraining movement from the substrate. Reflective cracks may appear due to vibration, substrate flexure or existing joints and cracks.

TRU is designed as a wear surface for foot traffic, forklift traffic or other rubber-wheeled traffic. The result of highly localized imposed loads, such as steel or hard-plastic wheeled traffic, heavy metal equipment, or pallets with protruding nails, may cause abrasion or gouging to the flooring surfaces.

Due to its cementitious nature, TRU cannot be completely homogenous in appearance and optical variations to the finished floor should be expected.

Before using Rapid Set products, read current technical data sheet, bulletins, product label and material safety data sheet at www.ctscement.com. It is the user's responsibility to review instructions and warnings for any Rapid Set product in current technical data sheet, bulletins, product label and material safety data sheet prior to use.

PHYSICAL DATA	
Working time	30 minutes
Flow life	15 minutes
Compressive Strength, ASTM C-109 (Mod.)*	
4 hours	3000 psi (21 MPa)
1 day	5000 psi (34 MPa)
28 days	6500 psi (45 MPa)
Slant Shear Bond Strength, ASTM C-882 (Mod.)*	
7 days	2100 psi (14 MPa)
28 days	2900 psi (20 MPa)
Tensile Strength, ASTM C-307*	
7 days	210 psi (1 MPa)
28 days	365 psi (3 MPa)
Flexural Strength, ASTM C-348*	
24 hours	850 psi (6 MPa)
28 days	1900 psi (13 MPa)

* Data obtained at flow consistency at 70°F (21°C)

WARNING: DO NOT BREATHE DUST. AVOID CONTACT WITH SKIN AND EYES.

Use material in well-ventilated areas only. Exposure to cement dust may irritate eyes, nose, throat, and the upper respiratory system/lungs. Silica exposure by inhalation may result in the development of lung injuries and pulmonary diseases, including silicosis and lung cancer. Seek medical treatment if you experience difficulty breathing while using this product. The use of a NIOSH/MSHA-approved respirator (P-, N- or R-95) is recommended to minimize inhalation of cement dust. Eat and drink only in dust-free areas to avoid ingesting cement dust. Skin contact with dry material or wet mixtures may result in bodily injury ranging from moderate irritation and thickening/cracking of skin to severe skin damage from chemical burns. If irritation or burning occurs, seek medical treatment. Protect eyes with goggles or safety glasses with side shields. Cover skin with protective clothing. Use chemical resistant gloves and waterproof boots. In case of skin contact with cement dust, immediately wash off dust with soap and water to avoid skin damage. In case of skin contact with wet concrete, wash exposed skin areas with cold running water as soon as possible. In case of eye contact with cement dust, flush immediately and repeatedly with clean water and consult a physician. If wet concrete splashes into eyes, rinse eyes with clean water for at least 15 minutes and go to the hospital for further treatment.

PROPOSITION 65 WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Please refer to the MSDS and www.ctscement.com for additional safety information regarding this material.

LIMITED WARRANTY: CTS CEMENT MANUFACTURING CORP. (CTS) warrants its materials to be of good quality and, at its option, will replace or refund the purchase price of any material proven to be defective within one (1) year from date of purchase. The above remedies shall be the limit of CTS's responsibility. Except for the foregoing, all warranties expressed or implied, including merchantability and fitness for a particular purpose, are excluded. CTS shall not be liable for any consequential, incidental, or special damages arising directly or indirectly from the use of the materials.

