

TECHNICAL DATA

THERMAL-CRETE

PRODUCT #1030-TR
PRODUCT #1030-TP

PRODUCT DESCRIPTION

Thermal-Crete TR #1030 is a trowel applied (3) three-component, cementitious polyurethane cement flooring system for medium to heavy-duty use for interior applications. **Thermal-Crete TR #1030** has a similar coefficient of expansion similar to concrete allowing this flooring system to tolerate large temperature swings (thermal-shock) and service exposures to wet and dry temperatures up to 260 degrees F.

Packaging: Kit is pre-measured 1 gallon each of both parts A & B, along with part C which is (2) 64 lb. bags of A112 Crete Slurry #9A.Slurry Sand.

ADVANTAGES

- High compressive strength
- Excellent resistance to thermal shock
- Very rapid cure formulation resulting in minimal downtime
- Tolerates higher than normal moisture vapor transmission rates (MVTR)
- Can be applied to freshly poured concrete after a minimum of 7 days
- Extremely durable
- Low odor during application & cure-can be applied in occupied facilities, USDA accepted
- VOC compliant with ALL U.S. regulations
- Can be factory or field pigmented using Thermal-Chem's Universal Pigment

LIMITATIONS

- Can be applied in ambient temperatures as low as 50 Degrees-F
- Do not apply when project humidity is greater than 70%
- Do not thin this product
- Consider top coating Thermal-Crete if applied in areas with higher than normal UV exposure

TYPICAL PHYSICAL PROPERTIES

% Solids	95%
Hardness	80-90 Shore D per ASTM D2240
Working Time	10-15 minutes at 70° F
Dry to Touch	2-3 hours at 70° F 5-6 hours at 55° F
Recoat Time	2-23 hours at 70° F after 24 hours lightly sand product
Open for Light Traffic	12-24 hours at 70° F

PRODUCT APPLICATION

Slowly pre-mix (1) one gallon of Part A, then add (1) gallon of Part B. If using pigment/colorant add to

Part B and drill for one minute at low r.p.m. Then add 64 lbs. of Part C aggregate and drill for an additional 3 minutes, until all three components are thoroughly mixed.

(Note: Each part is pre-measured and partial mixes should not be used)

Apply using a gauge rake or screed pre-set for desired thickness. A spiked roller can be used to help level the mixture and aid in the release of air entrapment. Broadcast TC A 108 silica sand to rejection.

Once properly cured, remove excess silica sand. Additional topcoats may be applied at this time.

#1030 TP Urethane Topcoat

Mix one gallon of Part A and one part of part B and 12 lbs. of Part C (Product A113 Crete Top Coat #10 aggregate. Apply with a flat squeegee, this will yield approximately 190-200 sq. ft. per kit. Aluminum oxide can be broadcast into the #1030 TP Urethane Topcoat and back rolled if a higher degree of non-skid is needed.

Expected Coverage: 46 square feet at 1/4"

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SURFACE PREPARATION

Apply **ThermalCrete #1030 TR** only to clean and sound substrates. Mechanical preparation by means of shot-blasting or diamond grinding to an ICRI CSP 3/4 is recommended (see ICRI Guideline No. 03732 for additional details).

PRODUCT HANDLING

Avoid contact of uncured material to skin and eyes, proper PPE should be used during the handling of this product. Clean skin with soap and water. Tools and equipment should be cleaned with a solvent such as xylene or lacquer thinner. Refer to the Safety Data Sheet for additional information.

LIMITED WARRANTY

Thermal-Chem Corporation warrants its product to be of good quality and will replace any product proved to be defective. **THERMAL-CHEM CORPORATION MAKES NO WARRANTY OR GUARANTEE EXPRESS OR IMPLIED INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.** In the event THERMAL-CHEM CORPORATION determines a product to be defective it will at its sole discretion, either replace the product or refund the purchase price. All claims must be made in writing within one-hundred and eighty (180) days from the date of shipment. No claim will be considered without written notice or after the specified time interval.