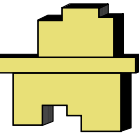


KEY RESIN COMPANY



# KEY QUARTZ T-250

## DESCRIPTION

**KEY QUARTZ T-250** is a decorative, trowelled resin flooring system that combines the beauty of colored quartz flooring with the durability of a trowelled mortar system. Consisting of a trowelled blend of colored quartz aggregate in a clear, 100% solids epoxy binder, **KEY QUARTZ T-250** provides decorative, heavy-duty protection at  $\frac{3}{16}$ " to  $\frac{1}{4}$ ". **KEY QUARTZ T-250** eliminates porosity and produces a dense, skid-inhibiting finish that will minimize dirt and chemical penetration.

Crack-free installations of **KEY QUARTZ T-250** can be achieved when installed in conjunction with a **Key Waterproofing and Crack Isolation Membrane**. An integral cove base can be installed in areas requiring seamless wall to floor coatings. For chemical resistant applications, specify **KEY QUARTZ T-250-HP**.

## KEY ADVANTAGES

- Decorative Appearance
- High Impact and Wear Resistance
- Low Maintenance
- Safe (non-skid)
- Chemical Resistant Finishes are Available

## KEY CONSIDERATIONS

- On or below grade installation must have an efficient vapor barrier under the slab.
- Special treatments are necessary where hydrostatic pressure or moisture vapor transmission may be present.
- Substrate temperature must be a minimum of 55°F (Low temperature cure system available on request).
- Substrate must be free of dirt, waxes, curing agents, and other foreign materials.
- All control joints and expansion joints in the substrate must be revealed with the appropriate divider strips in the topping.

## TYPICAL USES

**KEY QUARTZ T-250** is the best choice for heavy duty use in corridors, auditoriums, kitchen areas, classrooms, shower rooms, cafeterias, laboratories, correctional and health care facilities, or light production areas.

## SELECTION GUIDE

|   |                                      |                              |
|---|--------------------------------------|------------------------------|
| ↑ | Activity Centers                     |                              |
|   | Aircraft Hangars                     |                              |
| ↔ | Airports                             | Baggage/Service<br>Terminals |
| ↑ | Animal Areas                         | Housing                      |
| ↑ |                                      | Cage Washing                 |
| ↔ | Beverage                             | Processing                   |
|   |                                      | Packaging/Warehousing        |
| ↑ |                                      | Bottling                     |
| ↔ | Cafeterias                           |                              |
| ↑ | Chemical Processing                  |                              |
| ↑ | Clean Rooms                          |                              |
| ↔ | Coolers                              |                              |
|   | Computer Assembly                    |                              |
| ↑ | Commercial Kitchens                  |                              |
|   | Containment Areas                    |                              |
|   | Convention Centers                   |                              |
| ↑ | Correctional Facilities              |                              |
| ↑ | Corridors                            |                              |
| ↔ | Docks/Ramps                          |                              |
| ↑ | Dairies                              |                              |
| ↑ | Distilleries                         | Packaging                    |
| ↑ |                                      | Bottling                     |
| ↑ | Food                                 | Processing                   |
| ↑ |                                      | Preparation Service          |
|   | Garages                              |                              |
| ↑ | Hospitals                            | Corridors & Lobbies          |
|   |                                      | Patient Rooms                |
| ↔ |                                      | Operating Rooms              |
| ↑ |                                      | Services                     |
| ↑ | Laboratories                         |                              |
| ↑ | Laundries                            |                              |
| ↔ | Locker Rooms                         |                              |
| ↔ | Machine Shops                        |                              |
|   | Manufacturing                        | Light Duty                   |
|   |                                      | Heavy Duty                   |
| ↑ | Meat, Fish, Poultry Processing       |                              |
|   | Mechanical Equipment Rooms           |                              |
|   | Munitions Facilities                 |                              |
|   | Parking Garages                      | Interior Decks               |
|   |                                      | Exterior Decks               |
| ↑ | Pharmaceutical Plants                |                              |
| ↑ | Pulp and Paper Processing Facilities |                              |
| ↔ | Schools                              |                              |
| ↔ | Shopping Malls                       |                              |
| ↑ | Showers                              |                              |
| ↔ | Utilities                            |                              |
| ↔ | Warehouses                           |                              |
| ↑ | Waste Water Treatment Facilities     |                              |

↑-Excellent Choice ↔-Alternate Choice

# TECHNICAL DATA

## System Performance Properties

|                                           |                               |                                                                                            |
|-------------------------------------------|-------------------------------|--------------------------------------------------------------------------------------------|
| <b>Flammability</b>                       | ASTM D-635                    | Self Extinguishing                                                                         |
| <b>Adhesive Strength</b>                  | MIL-D-26413                   | 420 psi                                                                                    |
| <b>Fungus &amp; Bacteria Growth</b>       | MIL-F-52505 §4.4.2.11         | Will not support growth of fungus or bacteria when subjected to mildew and bacteria tests. |
| <b>Hardness</b>                           | ASTM D-2240                   | 80-84 Shore D                                                                              |
| <b>Bond Strength to Concrete</b>          | ACI COMM #403, Bulletin 59-43 | 300 psi (100% concrete failure)                                                            |
| <b>Resistance to Elevated Temperature</b> | MIL-D-3134F §4.7.4            | No slip or flow at required temperature of 158°F                                           |
| <b>Coefficient of Friction</b>            | ASTM D-2047                   | 0.80                                                                                       |
| <b>Water Absorption</b>                   | ASTM D-570                    | Nil                                                                                        |
| <b>Thermal Shock Resistance</b>           | ASTM C-884                    | Passes                                                                                     |
| <b>Abrasion Resistance</b>                | ASTM D-4060                   | 32 mg                                                                                      |
| <b>Impact Resistance</b>                  | MIL-D-3134F §4.7.3            | Withstands 16 ft./lbs. without cracking, delamination, or chipping.                        |
| <b>Compressive Strength</b>               | ASTM C-579, 7 days            | 14,000 psi                                                                                 |
| <b>Tensile Strength</b>                   | ASTM C-307                    | 2,400 psi                                                                                  |
| <b>Flexural Strength</b>                  | ASTM C-580                    | 4,200 psi                                                                                  |
| <b>Thermal Coefficient of Expansion</b>   | ASTM C-531                    | 26 x 10 <sup>-6</sup>                                                                      |

# Neat Resin

## Performance Properties

|                                  |             |                       |
|----------------------------------|-------------|-----------------------|
| <b>Compressive Strength</b>      | ASTM D-695  | 13,000 psi            |
| <b>Ultimate Tensile Strength</b> | ASTM D-638  | 4,200 psi             |
| <b>Tensile Elongation</b>        | ASTM D-638  | 6-8%                  |
| <b>Flexural Strength</b>         | ASTM D-790  | 7,800 psi             |
| <b>Flexural Modulus</b>          | ASTM D-790  | 2.5 x 10 <sup>5</sup> |
| <b>Hardness</b>                  | ASTM D-2240 | 65-85 Shore D         |

## COMPOSITION

100% solids clear epoxy resin with decorative colored quartz aggregates. Urethane and epoxy finish coats provide specific performance characteristics.

## COLOR & AVAILABILITY

**KEY QUARTZ T-250** is available in a variety of standard blends of colored quartz. Colors will not fade or wear thin.

**Key Flooring Systems** are available throughout the United States, Canada, and a number of other countries. Contact the **KEY REPRESENTATIVE** in your area for details.

## APPLICATION

Concrete surfaces must be in sound condition and properly prepared prior to any **KEY RESIN COMPANY** flooring system installation. Refer to **Key Resin Company Technical Bulletin #1** for specific preparation guidelines.

Installation of **KEY QUARTZ T-250** involves several steps including priming, trowelling colored quartz mortar, grouting, and sealing. For specific installation guidelines consult **Key Resin Company's Installation Instruction Manual**.

## MAINTENANCE

After completing the application of **KEY QUARTZ T-250**, the installer should provide the owner with maintenance instructions. If floors become slippery due to animal fats, oil, grease, or soap film, clean and rinse thoroughly.

**KEY QUARTZ T-250** is easily cleaned with neutral soaps or detergents. Routine mechanical scrubbing is recommended for all surfaces having a non-skid texture. Waxing is optional. Long periods of heavy traffic may cause wear patterns necessitating a maintenance application of a finish coat.

## TECHNICAL SERVICE

**Key Resin Company** and **KRC Associates, Inc.** provide services and consultations on material selection, specification, troubleshooting, and other information on the proper repair and protection of concrete surfaces. **KEY REPRESENTATIVES** are available to assist you at any time. CALL (888)943-4532.

**WARRANTY** Key Resin Company ("Key") warrants for a period of one (1) year that its products will be free of manufacturing defects and will be in conformity with published specifications when handled, stored, mixed and applied in accordance with recommendations of Key. If any product fails to meet this warranty, the liability of Key will be limited to replacement of any non-conforming material if notice of such non-conformity is given to Key within (1) one year of delivery of materials. Key may in its discretion refund the price received by Key in lieu of replacing the material. No customer, distributor, or representative of Key is authorized to change or modify the published specifications of this warranty in any way. No one is authorized to make oral warranties on behalf of Key. In order to obtain replacement or refund the customer must provide written notice containing full details of the non-conformity. Key reserves the right to inspect the non-conforming material prior to replacement. EXCEPT FOR THE EXPRESSED WARRANTY STATED ABOVE, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. KEY'S OBLIGATION SHALL NOT EXTEND BEYOND THE OBLIGATIONS EXPRESSLY UNDERTAKEN ABOVE AND KEY SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO THE PURCHASER OR ANY THIRD PARTY FOR ANY LOSS, COST, EXPENSE, DAMAGE OR LIABILITY, WHETHER DIRECT OR INDIRECT, OR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.



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Key Quartz T-250-2