Tek-Crete SL Colored Quartz
Urethane Mortar

3/16” to 1/4” Self-Leveling Decorative Colored Quartz Broadcast with Optional Integral Cove Base

1. PRODUCT DESCRIPTION

A. COMPOSITION
Tek-Crete SL Colored Quartz (Tek-Crete SLQ) is a two-component urethane resin blended on site with a curing agent and then mixed with a pre-engineered special aggregate that is applied and finished with an application of a decorative broadcast of engineered blended colored quartz set in a resinous grout and topcoat. The use of Colored Quartz enhances appearance of this industrial floor, which is installed between 3/16’ (4.7mm) and 1/4” (6.3mm) thickness. This aesthetically enhanced urethane concrete system standard finish incorporates polyaspartic resin topcoat and functions very well in excessively abusive conditions. Tek-Crete SL Colored Quartz is designed for exposure to rapid and extreme thermal cycling, many industrial and most cleaning chemicals, and moderately high heat in both wet and dry spaces. Tek-Crete SL Colored Quartz features a permeable base system and will withstand moisture and wet conditions, withstanding both emissive and high RH where other flooring systems, such as, acid brick, quarry tile, ceramic tile and most polymer flooring systems can fail. Tek-Crete SL Colored Quartz boasts exceptional impact resistance and is very durable under heavy loads.

Tek-Crete SL Colored Quartz’s appearance is created through the use of different blends of colored quartz that can create infinite color combinations. This is achieved by broadcasting colored quartz into a wet grout coat. Upon broadcasting, colored quartz is locked in and protected by the top coat which is a clear polyaspartic resin named Dex-O-Tex Quik-Glaze.

Tek-Crete SL Colored Quartz is suitable to be placed on both new and existing concrete and is ideal for renovations. Because Tek-Crete SL Colored Quartz cures rapidly allowing for quick return to service, select Tek-Crete SL Colored Quartz when down-time is limited. Unlike MMA (methyl methacrylate), Tek-Crete SL Colored Quartz component base urethane develops a fully reacted mortar and even with a polyaspartic composite system, components are non-flammable and nearly odorless during placement and cure. Tek-Crete SL Colored Quartz does not soften when exposed to heat, most chemicals and comply with all Federal, State and Provisional VOC requirements.

Tek-Crete SL Colored Quartz can be applied at temperatures ranging between 45°F (7°C) and 85°F (29°C).

Cove Base and Topcoat: Use Tek-Crete VRT for cove bases, trenches and other vertical surfaces. Tek-Crete SL Colored Quartz can be installed with other optional topcoats to provide enhanced physical properties to fit particular circumstances when required. (Consult CPC for all available optional sealer recommendations).

B. TYPICAL USES
Tek-Crete SL Colored Quartz is used in industrial and institutional service environments including Pharmaceutical, Bio-Tec, Health Care, Food Processing, Beverage, Aerospace, Processing, Electronics and Food Service. It’s heat resistance makes it a perfect choice for application around moderately high heat sources, such as Autoclave, Sterilizers, Hot Water Dumps and Friolators.

C. ADVANTAGES AND LIMITATIONS

ADVANTAGES:
1. Durable, withstands Heavy and Abusive Service.
2. Excellent Chemical Resistance.
3. Environmentally Friendly, Low Odor during Installation and Cure.
4. Rapid Cure and Quick Return to Service.

LIMITATIONS:
1. Tek-Crete TT or Tek-Crete SL are non-decorative functional poly-urethane concrete systems and are recommended alternates when extreme high temperature resistance or extreme chemical resistance is required being excessive to the limits of the physical properties of the topcoat.
2. Not recommended for use over flexible substrates, including plywood, wood, flexible diamond plate, flexible wall panels, etc.
3. Tek-Crete SL Colored Quartz is considered to be an aesthetically pleasing finish; however, the self-smoothing base can influence the appearance of the finished texture, profile and final appearance which can vary from samples, color charts or mock up.
4. Moisture vapor transmission (MVT) in excess of 10 lbs/1000 sq ft/per 24 hr. period per ASTM F1869, or 85% RH when tested in accordance with ASTM F2170, may result in delaminating, discoloration or surface imperfections. If high RH or emissivity is observed, assure that the substrate is not susceptible to sources of ground or external contamination which can interfere with coating performance.

2. TYPICAL PHYSICAL PROPERTIES at 75°F (24°C)

A. Compressive Strength ASTM C579 .................................................. 8,100 psi
B. Tensile Strength ASTM C307 ................................................................. 1,000 psi
C. Flexural Strength ASTM C308 ................................................................. 2,000 psi
D. Hardness ASTM D2240 Shore D ...................................................... 85-90
E. Thermal Coefficient of Linear Expansion ........................................ 1.4x10^-5 ASTM C531 (in/in/F°)
F. Density ASTM C905, lbs/ft. ^3 .................................................. 130
G. Water Absorption MIL-D-3134A .................................................. 0.64% (Para. 4.6.5)
H. Flammability ASTM E648 .................................................. >1.07 watts/cm^2
I. Adhesion ASTM D4541 .................................................. >400 psi
J. Temperature Distortion Crossfield Lab .................................. Passes (dry, wet and oil at 250°F or 121°C)
K. Microbial Resistance ASTM G21 .................................. Passes Rating 1
L. Chemical Resistance (See Chemical Resistant Chart)

3. OVERVIEW OF INSTALLATION STEPS

A. Obtain, read and observe MSDS.
B. Prepare substrate surface by careful and thorough removal of all laitance, greases and other foreign material that may interfere with bond. Prepare concrete surfaces in accordance with SSPC SP 13
C. Optional Primer: Use optional primer over porous substrate surfaces, consult the manufacturer for recommendations.
D. Screed Tek-Crete SL Colored Quartz base upon polyurethane mortar at the specified thickness anticipating added dimension of the grout, broadcast and topcoat.
E. Resinous receiving coat, Dex-O-Tex Quik-Glaze is placed and while wet colored quartz is broadcast to rejection to achieve the system nominal thickness specified. (Note: For increased
heavy load service, broadcast is applied directly onto the wet basecoat polyurethane mortar.)
F. Dex-O-Tex Quik-Glaze polyspartic clear sealer is applied as the lockcoat topcoat.
G. For additional topcoat options including novolac epoxy, standard epoxy or polyurethane resins please contact manufacturer for recommendations

4. PRODUCT AVAILABILITY
Crossfield Products Corp. maintains offices or factories at addresses listed below. A network of Factory Trained Contractors are established in major trading areas in the United States, Canada and in various European, Latin American and Far Eastern nations.

5. SKID RESISTANCE and CLEANABILITY
In general, the more aggressive the finished surface the greater the coefficient of friction and corresponding skid resistance, however, also, the more difficult the profile can be to clean. The smoother the finished texture the easier the surface profile is to clean, however, this also results in a reduction of skid resistant properties.

6. CLEANING
Cleaning and disinfecting compounds and cleaning techniques can affect the color, gloss, texture and performance of the system. As a precautionary step, Crossfield recommends that the end-user test their cleaning and disinfecting compounds on a sample or on a small, out of the way finished area, utilizing the intended cleaning technique prior to cleaning the entire surface area. If no deleterious effects are observed, the procedure can be continued. If the cleaning and disinfecting compounds or cleaning techniques damage the system, modification of the cleaning materials or techniques will be required. Contact Dex-O-Tex sales or technical service representative for additional information.

7. SPECIFICATION ASSISTANCE
Consult Crossfield Products Corp. for specification assistance, detailing, etc. This consultation is highly recommended prior to specification.

8. CHEMICAL RESISTANCE
See Crossfield Products Corp’s, Chemical Resistance Guidelines for chemical resistance of a product or system, as well as the type of testing performed:

- Crossfield Products Corp. Proprietary Testing

Note: Chemical resistance is a functional test usually limited to changes in weight or thickness measured in loss or gain and does not evaluate subjective aesthetic issues. To determine aesthetic issues, Crossfield recommends testing the product or system in accordance with intended end use.

9. TESTING
The technical data contained herein is the result of tests made in Crossfield’s laboratories or in independent laboratories using small scale equipment, following generally accepted trade practices. Although this information is believed to be true and accurate, the use of different equipment for testing under dissimilar conditions or the testing of samples produced under dissimilar conditions may develop substantially different results.

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.

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