

# X-Tech DecoQuartz QB

**Durable and decorative, two-component, quartz broadcast, epoxy floor system**

## Product Description

X-Tech DecoQuartz QB is a combination of colored quartz aggregate and 100% solids liquid epoxy resin that when applied, forms a seamless, colorful, chemical resistant and long wearing floor.

## Advantages

- Seamless hygienic floor
- Can be applied to steel and concrete
- Cost effective installation
- Can be used in direct sunlight\*
- Easy maintenance and cleaning
- Chemical resistant and stain resistant
- Heat resistant and abrasion resistant
- Durable, withstands most types of traffic.
- Highly attractive, available in many colors

\*When used with X-Tech UV Sealer

## Uses

- Food processing areas
- Schools, prisons and hospitals
- Break areas and cafeterias
- Kitchens and produce prep rooms
- Locker and bath rooms
- Automotive showrooms

## Physical Properties

Property	Typical Results
<b>Compressive strength (ASTM C109)</b>	>50 MPa
<b>Tensile strength (ASTM D638)</b>	>10 MPa
<b>Flexural strength (ASTM C580)</b>	>20 MPa
<b>Abrasion resistance (ASTM D4060)</b>	<100g (CS17, 1000g/1000r)

## Application Properties

	10C	20C	30C
<b>Pot life</b>	90 to 120min	40 to 60min	20 to 30min
<b>Recoat time</b>	24 to 48h	16 to 36h	12 to 24h
<b>Full cure</b>	10 days	7 days	5 days

## Shelf life

18 months when stored unopened in a dry area at temperatures between 4C and 35C. Keep container tightly closed.

## Chemical Resistance

<b>Hydrochloric acid (50%)</b>	Regular contact
<b>Sulfuric acid (50%)</b>	Regular contact
<b>Sodium hydroxide (50%)</b>	Regular contact
<b>Bleach (5%)</b>	Regular contact
<b>Citric acid (30%)</b>	Regular contact
<b>Gasoline</b>	Regular contact
<b>Skydrol</b>	Occasional contact

All application and performance values are typical for the material but may vary because of variations in test methods, conditions and configurations.

## Colors

Any combination of the colors below are usually available ex-stock.

RAL 9003 Signal White	RAL 2002 Vermilion
RAL 9004 Black	RAL 8024 Beige Brown
RAL 7044 Silver Grey	RAL 3012 Beige Red
RAL 1023 Traffic Yellow	RAL 1015 Light Ivory
RAL 1017 Saffron Yellow	RAL 5012 Light Blue
RAL 6002 Leaf Green	RAL 5023 Distant Blue

Most RAL colors can be produced to order (100 kg minimum order)

## Theoretical Coverage

X-Tech DecoQuartz QB

Base coat: 0.5L/m<sup>2</sup> (2m<sup>2</sup>/L)

Top coat: 0.1L/m<sup>2</sup> (10m<sup>2</sup>/L)

X-Tech DecoQuartz UV Sealer: 0.15L/m<sup>2</sup> (6.6m<sup>2</sup>/L)

X-Tech DecoQuartz Aggregate: 1 kg/m<sup>2</sup> (net) 1.2kg/m<sup>2</sup> (gross)

Use the net figure if good aggregate recovery technique is employed.

## Packaging

X-Tech DecoQuartz QB: 5 & 15L packs

X-Tech DecoQuartz UV Sealer: 19L packs

X-Tech DecoQuartz Aggregate: 25 kg bags

## UV Protection Coat

When the finished floor is to be exposed to direct sunlight then use X-Tech DecoQuartz UV Sealer in place of the top coat of X-Tech DecoQuartz QB at 0.15L/m<sup>2</sup>. Mixing and application is the same as for X-Tech DecoQuartz QB.

## Installation Guidelines

### Application

X-Tech DecoQuartz QB should be applied by experienced flooring crews. X-Calibur provides detailed method statements for all its products for use in various applications. These must be referred to prior to starting work. The information below is a summary intended for guidance only.

### Surface Preparation

The substrate must be structurally sound. Loose or unsound concrete should be removed and made good. Surfaces must be entirely free of oil, grease, paint, corrosion deposits, dust, laitance or other surface deposits. The surface should be prepared by captive blasting to produce a lightly exposed aggregate surface i.e. a ICRI CSP 4 or 5 surface profile. Any bug holes (blow holes) should be filled with X-Shield BugFill. If substrate is not level or is uneven, level using X-Tech LevelCem HD.

### Moisture Testing

The concrete slab should be tested for moisture with the Rapid RH system following the procedure in ASTM F2170. If the humidity reading is greater than 80% then conduct moisture vapor emission rate (MVER) testing using the procedure in ASTM F1869. (Both test kits are available for purchase from X-Calibur). If the MVER is under 3lbs/1000ft<sup>2</sup>/24h use X-Shield SF Primer. If the MVER is 3 to 5 lbs/1000ft<sup>2</sup>/24h use a single coat X-Shield MT Primer at 165 microns wft. If the MVER is 5 to 12 lbs/1000ft<sup>2</sup>/24h use two coats of X-Shield MT Primer at 200 microns wft per coat.

### Mixing

Mix X-Tech DecoQuartz QB using the following technique. Add the hardener component into the base component and mix using a slow speed drill (350 to 500 rpm) with an X-Shield Coating Mixer Paddle for 3 minutes or until both components have fully dispersed and are uniform in color. Be sure to rotate the mixer throughout the drum. Mix only full packs.

### Priming: Concrete

Prime using X-Shield SF Primer, X-Shield MT Primer or X-Shield Fast Primer (see separate datasheets)

### Priming: Steel

Prime using X-Shield EpoxyLock MT (see separate datasheet).

### Surface Preparation: Steel

Prepare the surface to achieve a ST3 (wire brush) or SA 2.5 (shot blast) level of preparation. Surface profile to be 45 microns minimum.

### Application

Base Coat: Apply the mixed product using a squeegee at a wet film thickness of 0.5mm. Immediately back roll. Once an area of approximately 10m<sup>2</sup> is covered, broadcast the color quartz aggregate by hand uniformly over the wet epoxy. Immediately after broadcast smooth the surface level with a long pole "Fresno" trowel or similar. Allow to

cure for at least 8 to 12 hours. Sweep or vacuum off all excess quartz. Although not essential, a second broadcast layer is highly recommended. A second broadcast will "hide" any imperfections that a single broadcast cannot. For a double broadcast, repeat steps above.

### Top Coat

Pour mixed resin out onto floor and spread with squeegee. Pull squeegee "tight" to remove any squeegee marks. Do not allow to puddle.

### Clean Up

Clean all equipment immediately after use with solvent. Clean hands and skin immediately with soap and water or industrial hand cleaner or denatured alcohol.

### Limitations

Will not accommodate movement cracks.  
Do not be apply within 3C of the dewpoint or if it is within 5C of the dewpoint and dropping.  
Avoid excessive application.  
Avoid skin contact.  
Do not discard into the water system.  
Not for use at service temperatures greater than 60C.  
Protect from chemical and water spillage until fully cured.

### Health and Safety

This product is for industrial use only by trained operatives. It is potentially hazardous if not used correctly. Please refer to the Material Safety Data Sheet (MSDS) prior to the purchase and use of this product. E-mail taltech@norcrossa.com or call 0860 000 825 for a copy of the MSDS.

### Authorized Technical Specialist

Please note that only TAL X-Calibur Authorized Technical Specialists are permitted to change any of the information in this data sheet or to provide written recommendations concerning the use of this product.

### Datasheet Validity

TAL X-Calibur make modifications to its product datasheets on a continuous basis. to ensure you have the latest version, e-mail taltech@norcrossa.com or call 0860 000 825 to ensure you have the latest version.

### Important Notice

TAL believes the information on this sheet to be correct - but does not guarantee its accuracy or completeness. Conduct your own tests of this product to determine its suitability for intended use. User assumes all risks and liability during testing and use of this product. The only obligation of TAL shall be to replace any of this product proved to be defective due to manufacturing defects. TAL shall not be liable for any injury, loss or damage, direct or inconsequential, relating to the use or inability to use this product. Except as expressly provided above, all products sold and samples furnished without any warranty of merchant ability or any other warranty, express or implied.

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