

## ICO-QUARTZ BROADCAST SYSTEM™

### Product Description

ICO-Quartz Broadcast™ floors are seamless 100% solids epoxy floors that combine the durability of our **ICO Coat** epoxy resin with the beauty of colored quartz aggregate. These are normally applied in thicknesses ranging from 1/16" to 1/8" in either a single broadcast (**ICO Quartz 60** or **ICO Quartz 120 SB**) or double broadcast system (**ICO Quartz 120 DB**), followed by a top coat of our crystal clear epoxy sealer, **ICO Sealer**, and/or our UV-resistant polyurea, **ICO Ure Guard 80**

A decorative cove material, **ICO Quartz Cove Mix**, is available as well.

### Typical Application

The **ICO-Quartz Broadcast™** floors are most suited for moderate wear areas where a highly attractive, easily maintained flooring surface is required. Examples include locker rooms, shower stalls, car showrooms, laboratories and clean rooms, hallways and hospitals where a durable, seamless, easy-to-clean surface is highly desirable. No waxing or continued recoating is needed, resulting in significant maintenance cost savings. For heavier wear areas, with constant vehicular traffic or impact, we recommend our **ICO Quartz Trowelled** flooring applied a minimum of 3/16" thick. And for more aggressive environments such as prep-kitchens, where constant thermal shock is expected, our **ICO Guard Quartz 120 DB** flooring material is recommended.

### Chemical Resistance

**ICO Quartz Broadcast™** system normally utilizes our **ICO Sealer** resin as a top coat and as such has excellent chemical resistance to caustics, most inorganic acids and some solvents (see **ICO Sealer** Product Data Sheet for specific information).

### Physical Properties

Tensile Strength (ASTM C-307)	: 1690 psi	Flammability (D-635)	: Self Extinguishing
Tensile Elongation (D-638)	: 2.8%	Vapor Transmission Rate (E-96)	: .03 perms
Compression Strength (C-579)	: 10,360 psi	Water Absorption (D-570)	: 0.2% in 24 hours
Hardness, Shore D (D-2240)	: 80	Taber Abrasion, CS17,	:
Bond Strength to Quarry Tile	: >1000 psi	1000 cycles at 1 kg.	: 106 mg. loss

### Physical Characteristics (Unless otherwise noted, properties are for **ICO-Quartz Base Coat**)

Density, lbs./gal	Viscosity @ 77°F,cps	Mixing Ratios	By Volume	By Weight
Pt. A : 9.5	Pt. A : 900	A : B, ICO Quartz Base Coat	2.2 : 1	2.4 : 1
Pt. B : 8.4	Pt. B : 70	A : B, ICO Sealer, Reg. Cure	1.75 : 1	2 : 1
A&B Mixed : 9.1	A&B Mixed : 550	A : B, ICO Sealer FC	1.9 : 1	2.2 : 1

  

Curing Times @	50°F	70°F	90°F	Curing Times @	50°F	70°F	90°F
<b>ICO Quartz Broadcast</b>				<b>ICO Sealer</b>			
Pot Life	20min	15-18min	8-10min	Pot Life	65min	55min	25min
Work Time	45min	30min	15-17min	Work Time	55min	40min	20min
Tack Free	20-24hrs	8hrs	4hrs	Hard, Foot Traffic	70hrs	30hrs	20hrs
Hard, Foot Traffic	28hrs	10hrs	5hrs	Hard, Truck Traffic/Sanding	80hrs	40hrs	25hrs

**Note:** For **ICO Sealer FC** and **ICO Ure Guard 80** cure times, please refer to Product Data Sheets

### Packaging and Coverage Rates

Basic Kit	: 100 SF at 1/8"
Bulk Pack	: 1000 SF at 1/8"
Drum Kit	: 10,000 SF at 1/8"

### Color Availability

It is available in nine pre-mixed color combinations and twelve solid colors. There are any number of custom color combinations at a slight extra charge. Please refer to our **ICO Color Chart**.

### Shelf Life

1 year at 77°F in unopened containers

## Installation

Please refer to our Application Specs for detailed instructions. Particular care must be taken to follow those instructions precisely to assure proper installation.

1. New concrete should cure a minimum of 28 days and be checked with a rubber mat or plastic sheet test. All surfaces to be covered should be shot-blasted, acid washed, scarified or sanded to present a clean, sound substrate to which to bond to.
2. Mix the ingredients in the prescribed ratios, using a low speed jiffy-style mixer of 750 rpm or less for at least 30-60 seconds.
3. No priming is necessary on dry concrete. On damp concrete or very porous concrete and on wood surfaces apply .  
**ICO-Primer™LV or LVFC** at 200-300 SF per gallon to prevent outgassing, pinholing and bubbling from escaping entrapped air. Allow to dry tack free.
4. **ICO-Quartz 60™**
  - a. Base Coat- Apply a liberal coat of **ICO-Quartz Base Coat™** at the rate of 80 SF per gallon.
  - b. Broadcast the **ICO-Quartz™** aggregate from chest high, throwing it up so it can drop vertically onto the wet resin coat. The aggregate can also be blown onto the surface with a sand blast hopper. Apply about 50 lbs per 100 SF. After a dry time of approximately 10 hours, sweep or vacuum the surface. Touch up any missed areas with **ICO-Quartz Base Coat™** and granules and allow to dry for 30 minutes.
  - c. Apply **ICO-Sealer™** or **ICO Ure Guard 80** to the surface at one gallon per 100 SF. For smoother finish apply a second coat at 160 to 200SF/gallon.
5. **ICO-Quartz 120 SB™**
  - a. Apply **ICO-Quartz Base Coat™** and bag of **ICO Fill SL sand** by gauge rake or notched squeegee at 40 SF/gallon of liquid.
  - b. Broadcast the **ICO-Quartz™** aggregate from chest high, throwing it up so it can drop vertically onto the wet resin coat. Apply about 100 lbs. per 100 SF. After a dry time of approximately 10 hours, sweep or vacuum the surface. Touch up any missed area with **ICO-Quartz Base Coat™** and granules and allow to dry for 30 minutes.
  - c. Apply **ICO-Sealer™** or **ICO Ure Guard 80** to the surface at one gallon per 100 SF. For smoother finish apply a second sealer coat at 160-200SF/gallon.
6. **ICO-Quartz 120 DB™**
  - a. Base Coat-Apply a liberal coat of **ICO-Quartz Base Coat™** at the rate of 80 SF per gallon.
  - b. Broadcast **ICO-Quartz™** aggregate from chest high, throwing it up so it can drop vertically onto the wet resin coat. Apply about 50 lbs. per 100SF.
  - c. After drying, sweep or vacuum the surface and repeat steps "a" and "b". Allow to dry for about 10 hours at 70°F.
  - d. After drying, sweep or vacuum the surface and apply **ICO-Sealer™** or **ICO Ure Guard 80** to the surface at the rate of one gallon per 100 SF.
  - e. For smoother finish apply a second sealer coat at 160-200SF/gallon.

Failure to follow the above instructions, unless expressly authorized by an ICO Technical Service Representative, will void our material warranty

## Precautions

1. Do not apply below 50°F
2. If floor particularly rough, level with ICO Primer Slurry prior to broadcasting
3. Do not use ICO Quartz Base Coat (ICO Coat Clear) as a top clear coat
4. Use ICO Ure Guard 80 as a top clear coat if UV exposure; do not apply more than 80SF/gallon (=16mils DFT) per coat
5. Use of double broadcast vs. single broadcast recommended for more uniform finish
6. Use of a second clear coat recommended for light-medium textures; order extra if this is the case.

## Product Specification

The specified area shall receive an application of **ICO-Quartz Broadcast™** floor system as manufactured by **International Coatings, Inc., Franklin Park, Illinois**. The system shall be installed by precisely following the manufacturer's published recommendations pertaining to surface preparation, mixing and application. The material shall be a low odor, solvent free 100% solids, high gloss epoxy. The system must adhere to damp as well a dry concrete, wood, metal, tile, terrazzo, and sound existing epoxy and urethane coatings. It shall have a minimum compressive strength of 10,360 psi (ASTM C 579). The film hardness shall be a Shore D of 80. It shall be self-priming on surfaces of average porosity. The system shall be unaffected by oils, greases, and resist such chemicals as 36% hydrochloric acid, 10% nitric acid, sodium hydroxide and 80% sulfuric acid for up to 7 days.

## Mission Statement

Our mission is to provide our customers the highest possible quality products and services and by so doing, build long term relationships based on mutual trust and respect.

The data, statements and recommendations set forth in this product information sheet are based on testing, research and other development work which has been carefully conducted by us, and we believe such data, statements and recommendations will serve as reliable guidelines. However, this product is subject to numerable uses under varying conditions over which we have no control, and accordingly, we do NOT warrant that this product is suitable for any particular use. Users are advised to test the product in advance to make certain it is suitable for their particular production conditions and particular use or uses.

**WARRANTY** - All products manufactured by us are warranted to be first class material and free from defects in material and workmanship.

Liability under this warranty is limited to the net purchase price of any such products proven defective or, at our option, to the repair or replacement of said products upon their return to us transportation prepaid. All claims hereunder on defective products must be made in writing within 30 days after the receipt of such products in your plant and prior to further processing or combining with other materials and products. WE MAKE NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE SUITABILITY OF ANY OF OUR PRODUCTS FOR ANY PARTICULAR USE, AND WE SHALL NOT BE SUBJECT TO LIABILITY FROM ANY DAMAGES RESULTING FROM THEIR USE IN OPERATIONS NOT UNDER OUR DIRECT CONTROL.

THIS WARRANTY IS EXCLUSIVE OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND NO REPRESENTATIVE OF OURS OR ANY OTHER PERSON IS AUTHORIZED TO ASSUME FOR US ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF OUR PRODUCTS.



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