

# ICO-GUARD QUARTZ 120 DB™

## Product Description

ICO-Guard Quartz 120 DB™ broadcast system is a seamless decorative quartz system that combines the beauty and durability of colored quartz aggregate with the high performance of the **ICO Guard** resin system. It is normally applied in a double broadcast at 1/8" thickness, but can be applied in a range of 1/16" - 3/16". The system includes a single top coat of our water white epoxy sealer, **ICO Sealer**. If a smooth finish, easier-to-clean surface is desired, then a second optional coat of **ICO Sealer** is recommended.

The advantages of this system over conventional decorative quartz systems include the absence of odor in all the resins because they are all 100% solids epoxies. **ICO Guard Quartz 120 DB** broadcast floors also have excellent chemical resistance to most cleaners, acids (except concentrated ones) and some solvents. Furthermore, this is a flexibilized epoxy with superior thermal shock and impact resistance.

## Product Application

The **ICO-Guard Quartz 120 DB™** broadcast systems are especially recommended in applications seeing moderate wear, high chemical exposure, and constant washdowns, even with hot water up to 180°F. Typical applications would be laboratories, emergency rooms in hospitals, test kitchens, animal facilities, and cleanrooms. Use of our quarter inch **ICO Guard Quartz Trowelled Floors** is recommended in heavy wear areas and severe thermal shock conditions (steam cleaning).

## Chemical Resistance

**ICO Guard Quartz 120 DB** floors will have virtually identical chemical resistance to our **ICO Guard** floors (look under "ICO Guard" heading in our **Chemical Resistance Chart**).

## Physical Properties (All properties are for the regular cure version)

Tensile Strength (ASTM C-307)	: 2030 psi	Flammability (D-635)	: Self Extinguishing
Tensile Elongation (C-307)	: 3%	Vapor Transmission Rate (E-96)	: .03 perms
Compression Strength (C-579)	: 5170 psi	Water Absorption (D-570)	: 0.2% (24 hrs)
Hardness, Shore D (D-2240)	: 80	Taber Abrasion, CS17,	: 106 mg loss
Bond Strength to Quarry Tile	: >1000 psi	1000 cycles at 1000 grams	

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

Density, lbs./gal	Viscosity @ 77°F, cps	Mixing Ratios	By Volume	By Weight
Pt. A : 9.5	Pt. A : 700	A : B, Guard Quartz Base	2 : 1	2.2 : 1
Pt. B : 8.6	Pt. B : 300	A : B, Guard Quartz Base FC	2.5 : 1	2.9 : 1
A&B Mixed : 9.2	A&B Mixed : 630	A : B, Sealer Coat	2 : 1	2.2 : 1
		A : B, Sealer Coat FC	1.9 : 1	2.2 : 1

### Curing Times @

	32 °	50°F	77°F	90°F
ICO-Guard Quartz Base Coat, Pot Life	----	60 min.	50 min.	25 min.
ICO-Guard Quartz Base Coat, Hard, Foot Traffic	----	24 hrs.	15 hrs.	5 hrs.
ICO-Guard Quartz Base Coat FC, Pot Life	50 min.	45 min.	30 min.	10 min.
ICO-Guard Quartz Base Coat FC, Hard, Foot Traffic	28 hrs.	14 hrs.	3 hrs.	2½ hrs.
ICO-Sealer, Pot Life	----	60 min.	50 min.	25 min.
ICO-Sealer, Hard, Foot Traffic	----	35 hrs.	15 hrs.	5 hrs.
ICO-Sealer FC, Pot Life	----	25 min.	15 min.	10 min.
ICO-Sealer FC, Hard Foot Traffic	----	24 hrs.	10 hrs.	5 hrs.
ICO-Sealer XFC, Pot Life	20 min.	15 min.	13 min.	----
ICO-Sealer XFC, Hard Foot Traffic	48 hrs.	18 hrs.	4.5 hrs.	----

**Shelf Life** 1 year at 77°F in unopened containers

Maximum Hardness achieved after 7 days @77°F.

## Packaging and Coverage Rates

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

## Color Availability

It is available in nine pre-mixed color combinations (see our Color Chart), as well as twelve solid colors. Custom color combinations available at an additional charge.

## Installation

Please refer to our Installation Guide for detailed instructions. Do not apply below 50°F unless using the “FC” version (“XFC” version of ICO Sealer).

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 power washed, 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 mixer of 750 rpm or less. Mix Part A and Part B for 1-2 minutes then add filler and mix until uniform in color and consistency. Do not change the ratio of A to B or add any solvent to the mix.
3. No priming is necessary on concrete of average porosity. On new concrete or very porous concrete and on wood surfaces apply **ICO-Primer™LV** at 200-300 SF per gallon to prevent outgassing, pinholing and bubbling from escaping entrapped air.
4. Apply a liberal coat of **ICO-Guard Quartz Base Coat™** at the rate of 80 SF per gallon.
5. 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.
6. After a dry time of approximately 12 hours (at 75°F), sweep or vacuum the surface and repeat steps 4 and 5 above.
7. After a dry time of approximately 12 hours (at 75°F), sweep or vacuum the surface and apply **ICO Sealer** to the surface at approximately one gallon per 100 SF.
8. (Optional) For a smoother surface, apply a second coat of **ICO Sealer** at 80-100 SF/gallon.

## Precautions

Avoid skin contact with liquid Part A and Part B as they may cause skin irritation to some people. Protective hand creams and/or gloves should be used. Clean-up can be done with hot soapy water before the material starts to set. Once the material has set it can only be removed with a paint stripper. Please consult Material Safety Data Sheet for detailed information.

## Product Specification

The specified area shall receive an application of **ICO-Guard Quartz 120 DB™** 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, 100% solids, high gloss flexibilized epoxy system. The system must adhere to damp, as well as dry concrete, masonry, wood and metal surfaces and shall be self priming. It shall have a tensile strength of 2030 psi, a tensile elongation of 3%, and a maximum compressive strength of 5170 psi. The system shall be unaffected by such acids as 10% nitric, 36% hydrochloric and 50% sulfuric, caustics, bleach and sugars.

## Technical Assistance

Our many years of installation experience enable us to provide valuable input on not only proper material selection but also installation techniques that will help assure your satisfaction. We have qualified personnel to inspect your floors, analyze the cause of the problems and design procedures and specifications to prolong the useful life of your floors. We furnish detailed application specifications including drawings of necessary details to be used. We are prepared to offer job site instruction for your in-house maintenance crews or to work closely with your preferred applicator. We can also furnish a list of a network of **ICO** trained certified contractors.

## 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 numerous 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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