

ICO-CAULK™

Product Description

ICO Caulk™ is a two-part, 100% solids semi-rigid epoxy caulk. It has excellent adhesion to concrete, metal, wood, brick and tile, on both damp and dry surfaces. It is USDA-approved, has virtually no odor and no toxic by products. **ICO Caulk™** has good chemical resistance to most common cleaners, battery acids, fuel oils, and some solvents. As a semi-rigid epoxy, with a Shore A Hardness of 85 and a tensile elongation of 36%, **ICO Caulk™** will better withstand heavy traffic, compared to a flexible urethane or silicone caulk. It dries to a glossy easy-to-clean finish. **ICO Caulk™** is available in a pourable or gun grade in either a regular cure or fast cure ("FC") grade in quart, gallon or 4 gallon kits in all our standard colors.

Typical Application

ICO Caulk™ is a durable expansion or control joint material for inside applications where limited movement is expected. It possesses significantly higher tensile strength and bond strengths than elastomerics and thus, is a far better joint material under heavier wear conditions. **ICO Caulk™** is particularly effective in damp environments, such as food process plants. For new concrete or for slab temperatures under 50°F, our **ICO Lastic Gun Grade** is recommended. For outside applications, use **ICO Caulk X**.

Chemical Resistance

ICO Caulk™ will withstand chemical attack for up to 24 hours at 75°F in the following chemicals:

Acetic Acid, 10%	Hydrochloric Acid, 37%	Salt Brine Solution, saturated
Brake Fluid	Lactic Acid, 10%	Skydrol
Butyl Cellulosol	Mineral Spirits	Sodium Hydroxide, 50%
Citric Acid, 20%	Nitric Acid, 10%	Sodium Hypochlorite, 5%
Diesel Fuel	Phosphoric Acid, 30%	Sulfuric Acid, 50%

Physical Properties

Tensile Strength (ASTM D-638) Pourable	: 700 psi	Hardness, Shore A (D-2240)	: 85
Tensile Strength (ASTM D-638) Gun Grade	: 2000 psi	Shrinkage	: 0%
Tensile Elongation (D-638) Pourable	: 36%	Bond Strength to Concrete	: >350 psi
Tensile Elongation (D-638) Gun Grade	: 32%		(concrete fails)
Hardness, Shore D (D-2240)	: 33	Bond Strength to Quarry Tile	: 450 psi

Physical Characteristics (all data are for **ICO-Caulk™**, pourable, unless otherwise noted)

Density, lbs/gal	Pourable	Gun Grade	Mixing Ratios	By Volume	By Weight
Pt. A	9.8	10.5	Pt. A : Pt. B	1.8:1	2:1
Pt. B	8.6	8.8	Pt. A : Pt. B FC	2.3:1	2.6:1
A&B Mixed	9.4	9.9	Pt. A : Pt. B, Gun Grade	1.8:1	2.2:1
			Pt. A : Pt. B, Gun Grade FC	2.3:1	2.9:1
Viscosity @ 77°, cps	Pourable	Gun Grade	Curing Times @	50°F	77°F
Pt. A	240	66,000	Pot Life	35 min.	30 min.
Pt. B	550	45,000	Working Time	3.5 hrs.	2 hrs.
A&B Mixed	310	52,000	Hard, Foot Traffic	22 hrs.	6 hrs.
			Pot Life – FC	30 min.	20 min.
			Working Time – FC	50 min.	20 min.
			Hard, Foot Traffic - FC	5 hrs.	2 hrs.

Shelf Life:

1 year at 77° in unopened containers.

Maximum hardness and chemical resistance are achieved after 7 days cure.

Color Availability

Standard colors: white, gray, dark gray, beige, red and black.

Packaging and Coverage Rates

ICO-Caulk™ or **ICO-Caulk Gun Grade™** is available in one quart, one gallon and four gallon kits. Coverage for a 1/2" x 1/2" joint is approximately 75 LF per gallon.

Installation (Note: Do not apply below 50°F)

1. New concrete should be allowed to cure for at least 28 days or be checked with a rubber mat or plastic sheet to insure adequate curing time.
2. To existing expansion joints, remove any existing sealant and soft backing board. Clean out loose debris, oils and grease and other contaminants either by muriatic acid or mechanical routing. Apply a backing rod material slightly larger than the opening to a depth of one half the width.
3. **ICO Caulk™** is a self-priming material, so no primer is necessary. However, for particularly porous substrates, you can prime first with **ICO Primer LV**.
4. Mix entire contents of Part A and Part B together for 1-2 minutes, until a uniform color is present.
5. Either pour into joint, or for the gun grade, use a trowel or spatula to apply the material. For a cleaner finish, tape both sides of joint and remove before caulk sets dry.
6. If backing rod does not fit tightly, it is better to pour in to about half the finished depth, allow to dry and then top off in a second pass to eliminate any separation due to drainage.

Precautions

ICO Caulk™ is a 100% solid epoxy, so no special ventilation is required. It is rated as corrosive and hence, proper precautions should be taken regarding skin and eye protection. Consult MSDS prior to use.

Product Specification

The specified area shall receive an application of **ICO-Caulk™** as manufactured by **International Coatings, Franklin Park, Illinois**. The system shall be installed by precisely following the manufacturers published recommendation pertaining to surface preparation, mixing and application. The material shall be a low odor, 100% solid, two part epoxy, available in pourable or gun grade. It shall have a tensile elongation of 36% when tested using ASTM D-638 and a Shore D Hardness of 33. The system shall be usable in a temperature range of 50°F-90°F. It shall have excellent damp as well as dry adhesion to concrete, brick and tile, metal and wood. The system shall resist chemical attack for up to 72 hours from such acids as 10% nitric, 30% phosphoric, 37 % hydrochloric, 50% sulfuric, and 10% lactic, as well as 50% caustic, brake fluids and diesel fuels.

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 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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