



**Resilient
Epoxy
Flooring
and
Grouting
Systems**

PRODUCT DATA SHEET

ICO LASTIC / ICO LASTIC GUN GRADE

Product Description

ICO-Lastic is a two part, 100% solids epoxy-modified urethane. With elongation of 140%, it combines the elastomeric properties of a urethane with the excellent dry and damp adhesion to concrete, metal and wooden surfaces of an epoxy. Normally applied by roller or squeegee down to a minimum thickness of 20 mils, **ICO-Lastic** offers an impermeable moisture barrier against standing water. Applied by trowel in a "gun grade" version, it can also be used for interior expansion joints where moderate movement is expected. At minimum 60 mil thick applications, **ICO-Lastic** offers excellent crack bridging characteristics for inside or outside concrete structures. It will withstand light to moderate towmotor and automobile traffic.

Product Application

ICO-Lastic is used in food and beverage plants, where its no odor characteristics are desirable, as a waterproof membrane underneath acid brick or tile floors. Applied at approximately 60mils, it provides a good secondary containment barrier against some acids, caustics and fuel oils. For more highly corrosive areas, where crack bridging is required, **ICO-Lastic** is applied beneath one of our quarter inch higher chemical resistant epoxy overlayers. **ICO-Lastic** also acts as a complete waterproofing barrier for parking garages, balconies, walkways and roof decks where color change is not objectionable.

ICO-Lastic Gun Grade offers a resilient (100% tensile elongation) yet tough caulking material that will hold up to normal fork lift traffic in expansion joints where moderate movement is expected. For old concrete floors, where little movement is expected, use of our 100% solids epoxy, **ICO Caulk**, is preferred.

Chemical Resistance

ICO-Lastic can withstand up to 72 hours immersion in the following chemicals

Ammonium Nitrate	Diesel Fuel	Lactic Acid, 20%	Sugars
Beer	Ethylene Glycol	Mineral Spirits	Sulfuric Acid, 20%
Bleach	Ferric Chloride	Palm Oil	Tartaric Acid
Boric Acid	Hydrogen Sulfide	Salt Brine	Urine
Carbonated Beverages	Jet Fuel	Sodium Hydroxide, 50%	Vinegar
Chlorine Water	Kerosene	Sodium Hypochlorite, 10%	Water, Deionized
Citric Acid			

Physical Properties

(Unless otherwise designated, for **ICO Lastic**)

Tensile Strength (ASTM C-638)	: 1480 psi	Rebound Resiliency, %	: 30%
Tensile Elongation (D-638)	: 140%	Hardness, Shore A	: 80
Tensile Elongation, Gun Grade	: 100%	Hardness, Shore A, Gun Grade	: 80
Bond Strength to Concrete	: 400 psi (concrete failed)	Water Absorption	: 2% after 7 days

Physical Characteristics

(Unless otherwise designated, for **ICO-Lastic**)

Density, lbs/gal.	Gun Grade	Mixing Ratios	By Volume	By Weight
Pt. A : 9.4	10.1	Pt. A : Pt. B	8:1	9.7:1
Pt. B : 7.9	7.9	Pt. A : Pt. B, Gun Grade	9:1	11.4:1
A&B Mixed : 9.2	9.9	Curing Times @	40°F	50°F
		Pot Life	30min.	30 min.
Viscosity@77°F, cps	Gun Grade	Work Time	45 min.	45 min.
Pt. A : 15,200	120,800	Hard Foot Traffic	68 hrs	24 hrs.
Pt. B : 380	380		9 hrs.	6 hrs.
A&B Mixed : 10,880	60,000			

Maximum Hardness achieved after 7 days @77°F.

Color Availability

All of our standard colors

Packaging and Coverage Rates

ICO-Lastic (for 20 mils)	ICO-Lastic Gun Grade
4 gallon kit : 320 SF	1 gallon kit : 75 LF, 1/2" x 1/2"
25 gallon kit : 2000 SF	

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 be allowed to cure a minimum of 28 days and/or be checked with a rubber mat or plastic sheet to insure adequate curing time.
2. All surfaces to be covered should be power washed, shot blasted, acid etched, scarified or sanded to present a clean, sound substrate to which to bond to. The prepared surface should have a ph of 7.
3. **ICO Lastic** is a self-priming material; however application of a single coat of **ICO Primer LV** over porous substrates is recommended to help prevent out gassing. Apply at a coverage of 180-200 SF/gallon and allow to dry.
4. Mix Part A and Part B components at slow speeds (< 700 rpm) with a Jiffy style mixer for at least two minutes, until uniform in color. See Tech Bulletin 117 for details.
5. Pour the mixture onto the substrate and spread with a squeegee, trowel or roller at a coverage rate of no greater than 80 SF/gallon (for 20 mils). Spike roll with a porcupine roller to help release air.
6. If an anti-slip surface is required, broadcast in aggregate.
7. No top coating is required; however, if a harder wear resistant surface or higher chemical resistance is required, apply the appropriate **ICO** Trowelled system to a **minimum** thickness of one quarter inch.

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

Precautions

1. **Material discolors under UV exposure, must be topped with one of our urethane coatings if applied outside**
2. **For crackbridging, apply at least 60 mils thick**
3. **ICO Lastic Gun Grade, with 100% elongation, best suited for inside expansion joints with only moderate temperature swings.**
4. **Do not apply below 40°F**

Product Specification

The specified area shall receive an application of **ICO-Lastic** as manufactured by **International Coatings of Franklin Park, Illinois**. The material 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 epoxy-modified polyurethane with no toxic by products. The material shall be available in a variety of acceptable colors. It shall have an elongation of at least 140% at 70°F when tested using ASTM D638. Material shall also have a tensile strength of at least 1400 psi and bond strength greater than the cohesive strength of concrete. The system shall be unaffected by most caustics, oils, greases and many low strength acids.

Mission Statement

Our mission is to provide our customers the highest possible quality products and services and by doing so, 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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