



**Resilient
Epoxy
Flooring
and
Grouting
Systems**

PRODUCT DATA SHEET

ICO LASTIC OH

Product Description / Application

ICO Lastic OH is a specially formulated, three-part concrete repair material especially suited for repairing the underside of spalled bridge decks and vertical columns subjected to flexing. As an epoxy/urethane polymer hybrid material, it combines the flexibility of urethane (about 100% elongation) with the excellent damp, as well as dry adhesion of epoxies. Using a special filler, **ICO Lastic OH** can be applied in a single overhead or vertical application up to 6" thick per pass. Such repairs have been in place for over five years in salt environments with bridge deflections up to two feet without any failure.

ICO Lastic OH is an odorless, non-toxic material that is very user friendly for DOT maintenance crews. It can be applied down to 40°F, but because of workability issues, we recommend application temperatures be kept above 50°F if at all possible. It is normally applied by trowel or even by hand, as it has the consistency of "play dough", over a primed surface. It is available in a neutral color or concrete gray and in pre-measured 2 gallon kits. No top coat is required, but please note that there will be discoloration if exposed to sunlight.

Chemical Resistance

ICO Lastic OH 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

Tensile Strength(ASTM C-638)	: 1480 psi	Hardness, Shore A	:80
Tensile Elongation (D-638)	: 100%	Water Absorption	: 0.2% after 7 days
Bond Strength to Concrete	: 400 psi (concrete failed)		

Physical Characteristics (Unless otherwise designated, for ICO Lastic OH)

Density, lbs/gal.

Pt. A	: 10.1
Pt. B	: 7.9
A&B Mixed	: 9.9

Viscosity@77°F, cps

Pt. A	: 120,800
Pt. B	: 380
A&B Mixed	: 60,000

Shelf Life

1 year at 77°F in unopened containers

Mixing Ratios

	By Volume	By Weight
Pt. A : Pt. B	9:1	11.5:1
Fill : Liquid A & B	1:1	2:1

Curing Times @

	40°F	50°F	77°F	90°F
Pot Life	30min	30min	30min	20min
Work Time	45min	45min	35min	30min
Hard Foot Traffic	68hrs	24hrs	9hrs	6hrs

Maximum Hardness achieved after 7 days @77°F.

Color Availability

Neutral and Concrete Gray

Packaging and Coverage Rates

2 Gallon Kit : Approximately 3SF @ 1" thickness

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. All surfaces to be covered should be power washed and/or mechanically ground to remove all loose, deteriorated substrate. Any rusted metal should either be sand blasted clean and primed with **ICO Primer LV** or if some residual rust, primed with **ICO Rust Guard** prior to application of **ICO Lastic OH**.
2. Prime all masonry surfaces with **ICO Primer XT** so that the entire surface is wetted out. Allow to tack up prior to application of the **ICO Lastic OH**.
3. Mix Part A and Part B of **ICO Lastic OH** at low speeds (<750 rpm's) with a jiffy style mixer for at least 30 to 60 seconds, then slowly add Part C filler. Note that you should not add in the entire fill material, but blend it in slowly until you have achieved your desired consistency (the "best" consistency varies with the application temperature).
4. Apply with steel trowel or by hand (using rubber gloves) to completely fill area to be patched. Deeper overhead patches should be done in at least two passes. Finish smooth with trowel lubricated with isopropyl alcohol.

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

Precautions

1. **Apply over a wet or tacky primer**
2. **Do not apply below 40°F**
3. **If color change an issue, top coat with one of our UV resistant urethane coatings.**

Product Specification

The specified area shall receive an application of **ICO Lastic OH** 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. It shall have an elongation of at least 100% 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.



2925 Lucy Lane • Franklin Park, IL 60131 • 847.451.0279 • 800.624.8919 • FAX 847.451.0379

www.InternationalCoatings.com