



**Resilient
Epoxy
Flooring
and
Grouting
Systems**

PRODUCT DATA SHEET

ICO-FLOOR SL™

Product Description

ICO-Floor SL is a three part, 100% solids, low odor epoxy flooring resurfacer. Normally applied between 1/16" and 1/8" thick in a single step self leveling application, **ICO-Floor SL** quickly and economically restores a pitted, worn concrete floor to a smooth, glossy, easy-to-clean surface. It possesses good wear resistance and will resist chemical attack from most oils, greases, lubricants, caustics and mild acids. With its more resilient formulation, as indicated by a tensile elongation of 12%, **ICO-Floor SL** can better withstand vibration and impact, compared to more brittle, conventional floor resurfacers.

ICO-Floor SL dries to a smooth, high gloss finish. For anti-slip textures, fine silica sand or aluminum oxide can be broadcast into a top coat of **ICO-Floor Coating**. For a more decorative look, vinyl flakes can be added, followed by an application of a clear top coat of **ICO Sealer** or **ICO Ure Guard 80**. A faster cure version, **ICO-Floor SL FC**, is also available for faster turnaround time.

Typical Application

ICO-Floor SL is an ideal floor resurfacer for relatively dry areas such as warehouses, food distribution centers, airplane hangers, retail stores, schools, hospitals and general industrial use. Unlike a thin film coating that will "mirror" minor defects in the substrate, **ICO-Floor SL**, applied at a minimum of 1/16" thickness, will hide such imperfections, providing a "showroom quality" floor. By "seeding" the self leveling floor to excess with silica sand, then top coating with **ICO-Floor Coating**, a high build, longer lasting, slip resistant floor can be delivered at relatively inexpensive costs.

Chemical Resistance

A complete list of chemical resistances is available in the **International Coatings Chemical Resistant Chart** or contact **ICO Technical Service** for specific recommendations.

Physical Properties

Tensile Strength (ASTM C-307)	: 1920 psi	Vapor Transmission Rate (E-96)	: .03 perms
Tensile Elongation (C-307)	: 12%	Coefficient of Thermal Expansion (D-696)	: 1.7 x 10 ⁻⁵ per °F
Flexural Strength (C-580)	: 1760 psi	Gardner Impact	: 120 in lbs.
Compression Strength (C-579)	: 6170 psi	Water Absorption (D-570)	: 0.2% in 24 hours
Hardness, Shore D (D-2240)	: 73	Taber Abrasion CS17 (D-1044)	: 106 mg. Loss
Bond Strength to Quarry Tile	: >1000 psi	1000 cycles at 1 kg.	
Flammability (D-635)	: Self Extinguishing	60° Gloss	: 93

Physical Characteristics

Mixing Ratios	By Volume	By Weight	
ICO-Floor SL			
Pt. A : Pt. B	2.5 : 1	3.0 : 1	
Aggregate : Liquid	1 : 1	1.5 : 1	
ICO-Floor SL FC	<u>By Volume</u>	<u>By weight</u>	
Pt. A: Pt. B	2.3 : 1	2.8 : 1	
Aggregate : Liquid	1 : 1	1.5 : 1	
Viscosity@77°F, cps	Density, lbs/gal.		
Pt. A	750	Pt. A	10.2
Pt. B	420	Pt. B	8.7
A&B Mixed	700	A&B Mixed	9.7

Curing Times @

ICO Floor SL

	50°F	77°F	90°F
Pot Life	50 min.	40 min.	20 min.
Work Time	40 min.	30 min.	20 min.
Hard, Foot Traffic	60 hrs.	26 hrs.	14 hrs.
Hard, Truck Traffic	70 hrs.	34 hrs.	20 hrs.

ICO Floor SL FC

Pot Life	20 min.	15 min.	10 min.
Work Time	15 min.	12 min.	10 min.
Hard, Foot Traffic	30 hrs.	18 hrs.	8 hrs.
Hard, Truck Traffic	40 hrs.	24 hrs.	12 hrs.

Maximum Hardness achieved after 7 days @77°F.

Color Availability

Standard colors: White, gray, dark gray, beige, yellow, red, green, blue, brown, black.

Shelf Life

1 year at 60-80° in unopened containers.

Packaging and Coverage Rates

4 gallon Kit
50 SF at 1/8" depth
100 SF at 1/16" depth

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 has occurred.
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. Cracks 1/8" wide or greater, pour joints and construction joints must be cleaned and filled with **ICO-Gel**. Patch all holes over 1/2" deep with **ICO-Patch**.
4. The three ingredients should be mixed in the prescribed ratios, using a low speed jiffy-style mixer (maximum 750 rpm), until uniform in color and consistency.
5. Do not add solvent to the mix.
6. Apply **ICO-Floor SL** with a notched rubber squeegee or steel trowel. Spike roll with porcupine roller to improve air release.
7. For an anti-slip surface, allow **ICO-Floor SL** to dry, apply a top coat of **ICO- Floor Coating** and broadcast in silica sand.

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

Precautions

1. Only apply over a tack free primer to help prevent out gassing
2. Do not apply either regular or fast cure versions below 50°F
3. Do not apply less than 60 mils thick
4. Do not apply on floor sloped > 1/8" per foot
5. Do not apply fast cure version >70°F
6. Do not apply in severe thermal shock environments

Product Specification

The specified area shall receive an application of **ICO-Floor SL™** as manufactured by **International Coatings, 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, three part, solvent-free 100% solids epoxy system with moderate resilience to resist impact and vibration. It should be applied by notched trowel or squeegee in one application without needing a top coat. It shall be a resin-rich mix ratio of 1:1, **ICO-Fill™** aggregate to resin and hardener. It shall have an elongation of 12% when tested using ASTM C-307 and Gardner Impact of 120 inch pounds. The compressive strength when tested in accordance with ASTM C-579 shall not exceed 6200psi and the hardness shall not exceed 73 (Shore D). It shall have excellent adhesion to wood, metal, tile, brick as well as concrete. The system shall be unaffected by oils and greases and have high chemical resistance against acids such as 10% nitric, 30% phosphoric, citric, and 50% sulfuric, as well as resist such caustics as 50% sodium hydroxide and 26% ammonium hydroxide.

Mission Statement

Our mission is to provide our customers the highest 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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