

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 100**. 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	2.4 : 1	3.0 : 1
Aggregate : Liquid	1 : 1	1.5 : 1
ICO-Floor SL FC		
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

Basic 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. Do not apply on floors with slopes of greater than 1/8" per foot. Do not apply below 50°F.

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-Grout BL** or **ICO-Gel**. Patch all holes over 1/2" deep with **ICO-Patch**.
4. To help eliminate outgassing we always recommend priming with **ICO Primer LV** or **LV FC** and allowing to dry tack free .
5. The three ingredients should be mixed in the prescribed ratios, using a low speed paddle style mixer (maximum 750 rpm), until uniform in color and consistency.
6. Do not add solvent to the mix.
7. Apply **ICO-Floor SL** with a notched rubber squeegee or steel trowel. Spike roll with porcupine roller to improve air release.
8. For an anti-slip surface, allow **ICO-Floor SL** to dry, apply a top coat of **ICO- Floor Coating** and broadcast in silica sand.

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. Cleanup can be done with mineral spirits or MEK before the material starts to set. Once the material has set it can be removed with a paint stripper.

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.

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 our network of **ICO-trained** certified applicators.