

ICO-FLOOR COATING™

Product Description

ICO Floor Coating™ is a two part, 100% solids epoxy coating with very low odor and excellent self-leveling characteristics. It can be applied in virtually any thickness down to about 5 mils (320SF/gal) by brush, roller or spray; however if applied much over 10-15 mils per coat, use of a porcupine roller is highly recommended to help air release. It is a self priming material that has excellent adherence to concrete, as well as wood and metal surfaces. It dries to a high gloss finish; if texture is required, suitable aggregate can be broadcast into the first coat and then back rolled to achieve a more uniform finish.

ICO Floor Coating™ has excellent chemical resistance to caustics, moderate concentrations of most inorganic acids, and oils, lubricants and fuels. It is a flexibilized epoxy with elongations of 11% and as such does not chip or crack nearly as easily as conventional, more brittle epoxies.

As a clear coat, **ICO Floor Coating Clear** can be used as a sealer over our decorative quartz and flake systems and has the added advantage of being easily field tinted to one of our standard colors by use of our color concentrate, **ICO Tint**, used at about on quart per 5

gallons of the clear coat. **ICO Floor Coating** is also available in an extra thick (**XT**) version for a grout coat over our drier mixes, **ICO Floor** and **ICO Patch**, as well as an orange peel version, **ICO Floor Coating OP**. All of these **ICO Floor Coatings** are available in a fast cure (**FC**) version for accelerated turnaround times.

Typical Application

ICO Floor Coating is an ideal floor coating for providing an excellent light-reflective surface that will prevent moisture and other liquids from penetrating through to the concrete. It is particularly useful as a protective coating in warehouses, distribution centers, auto service shops and aiseways seeing light to intermediate loads. It is also an excellent intermediate coat underneath a UV-resistant polyurethane in such facilities as airplane hangers and dealer showrooms where a higher build coating is needed to help smooth out overlapping blastrac patterns or minor imperfections in the concrete. For old concrete badly pitted, our **ICO Floor SL**, three-part self leveling epoxy applied 60-120 mils is preferred to yield a smooth even surface.

Chemical Resistance

ICO-Floor Coating™ is recommended for areas subject to such chemicals as battery acids, Skydrol, caustics, gasoline, brake fluids and some weak solvents. A more complete list of chemical resistance is available in the **International Coatings Chemical Resistance Chart** under "**ICO-Floor**".

Physical Properties

Tensile Strength (ASTM D-638)	:2705 psi	Bond Strength to Concrete	: 450psi (concrete failure)
Tensile Elongation (D-638)	:11%	Vapor Transmission Rate (E-96)	: .03 perms
Hardness, Shore D (D-2240)	:68	Taber Abrasion (D-1044), CS17	: 106 mg loss
60° Gloss	:80	1000 g. 1000 cycles	

Physical Characteristics (Unless otherwise designated, all data are for regular cure material, gray)

Density, lbs/gal.

Pt. A	: 14.1
Pt. B	: 8.5
A&B Mixed	: 12.7

Viscosity @ 77°F, cps

Pt. A	:1520
Pt. B	:520
A&B Mixed	:1000

Mixing Ratios

	By Volume	By Weight
Pt. A : Pt. B	3.0 : 1	5.0 : 1
Pt. A : Pt. B, FC	2.8 : 1	4.6 : 1

Curing Times @

	50°F	70°F	90°F
ICO Floor Coating			
Pot Life	50min	40min	25min
Work Time	40min	30min	20min
Tack Free	24hrs	14hrs	5hrs
Hard, Foot Traffic	60hrs	28hrs	8hrs
Hard, Truck Traffic	70hrs	36hrs	14hrs
ICO Floor Coating FC			
Pot Life	20min	12min	8min
Work Time	15min	8min	4min
Tack Free	20hrs	6hrs	3hrs
Hard, Foot Traffic	40hrs	14hrs	8hrs
Hard, Truck Traffic	54hrs	20hrs	14hrs

Maximum hardness and chemical resistance are achieved after 7 days at 77°F

Color Availability

Standard colors: white, gray, dark gray, beige, blue, red, yellow green, brown, black as well as clear.

Shelf Life

1 year if stored between 60 -80°F in unopened containers.

Packaging and Coverage Rates (for 10 mil coverage)

1 Gallon Kit	: 160 SF
4 Gallon Kit	: 640 SF
100 Gallon Kit	: 16,000 SF

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 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. No priming is necessary on concrete of average porosity. On new concrete or old concrete with an open porosity apply **ICO-Primer LV** or **ICO-Primer LVFC** or a thinned version of **ICO Floor Coating** using MEK, Toluene or Xylene at about 10% by volume to help prevent outgassing, bubbling and pin holing from escaping entrapped air. Allow to dry tack free.
4. The ingredients should be mixed in the prescribed ratios, using a low speed jiffy-style mixer, (maximum 750 rpm). Mix Part A first for 30-60 seconds and then add Part B and mix for another 30-60 seconds, until uniform in color and consistency.
5. Do not mix less than the prescribed amount of any ingredient.
6. Apply contents onto floor immediately after mixing. Spread with a notched squeegee, then back roll with a fine nap (1/8") roller
7. Apply a second coat when dry enough to walk on, but before cure hard times for truck traffic. If more time has elapsed the first coat should be sanded before recoating.
8. A suitable aggregate may be broadcast into the first coat to provide a more anti-slip profile. It is advisable to test various types and sizes of aggregate to achieve the desired finish profile. For more uniform distribution, back roll after broadcasting.

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. Clean up can be done with hot soapy water before the material starts to set. Once the material has set it can be removed with a paint stripper. Refer to MSDS for further information.

Product Specification

The specified area shall receive an application of **ICO-Floor Coating™** as manufactured by **International Coatings, 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 100% solid, two part epoxy coating with enhanced resilience to resist thermal and mechanical shock. The system must adhere to concrete, metal and wood surfaces, as well as well-bonded epoxy and urethane coatings. It shall have an elongation of 11% when tested using ASTM D-638. The film hardness shall be a Shore D of 68. It shall resist chemical attack for up to seven days from such chemicals as diesel fuel, mineral oils, sugar and 5% bleach.

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.