

ICO-FLAKE SYSTEM™

Product Description

ICO-Flake™ combines the durability and protection of an epoxy with the beauty of decorative vinyl flakes. It is an often-used economical replacement for vinyl tile or linoleum floors as it provides a totally seamless surface with much better wear characteristics and with minimum maintenance (no waxing required).

ICO Flake™ consists of a base coat of our 100% solids, low odor **ICO Coat** epoxy coating applied at a total thickness of 10-15 mils, followed by either a partial broadcast or full broadcast of vinyl flakes, and then a clear top coat of our epoxy sealer, **ICO Sealer**, or for outside applications or where long term gloss retention is required, our two-part polyurea, **ICO Ure Guard 80**.

Nine standard color flake combinations are offered, or we can provide custom combinations to suit your particular color scheme. Rough textures for

enhanced anti-slip properties can be provided in the full flake system with one coat of sealer, while a second coat will provide an easier-to-clean, smooth surface for relatively dry conditions.

Product Application

ICO Flake™ is particularly suited for aisle ways and offices seeing light to medium vehicular or foot traffic where its low maintenance and decorative features provide an excellent alternative to conventional surfaces. Other common applications include residential garages and basements, commercial garages and concourses, and institutional areas, such as in hospitals and dining areas, where more absorbent surfaces such as carpeting and tile limit the ability to properly sanitize the floor.

Chemical Resistance

With **ICO Sealer™** as a top coat, it has excellent resistance to most moderate concentrations of acids, caustics and some solvents (see our Chemical Resistance Chart under the "**ICO Guard**" column for exact chemical resistance ratings). With **ICO Ure Guard 80** as the top coat, please refer to that data sheet for specific recommendations.

Physical Properties (with ICO Sealer top coat)

Hardness (Shore D) : 80
60° Gloss : 100
Adhesion to concrete: >450psi (concrete fails)

Physical Characteristics

Density, lbs./gal.	ICO-Coat™	ICO-Sealer™
Part A	13	9.5
Part B	8.3	8.6
Part A&B Mixed	12	9.2

Viscosity cpms @70°F	ICO-Coat™	ICO-Sealer™
Part A	2,400	700
Part B	50	400
Part A & B Mixed	1,450	600

Shelf Life

1 year in unopened container, stored at 70°F,
(6 months for **ICO Ure Guard 80**)

Mixing Ratios	By Volume	By Weight
ICO-Coat, A:B	3:1	5:1
ICO-Sealer™	2:1	2.2:1
ICO-Ure Guard 80	2:1	2:1

Curing Times at		50°F	77°F	90°F
ICO-Coat:	Pot Life:	55 min	40 min	20 min
	Tack Free:	20 hrs	10 hrs	6hrs
	Hard, Foot Traffic:	72 hrs.	20 hrs	12 hrs
ICO Coat FC:	Pot Life:	30 min	20 min	15 min
	Tack Free:	12 hrs	6-8 hrs	4 hrs
	Hard Foot Traffic:	36 hrs	12 hrs	8 hrs
ICO-Sealer:	Pot Life:	60 min	45 min	25 min
	Hard, Foot Traffic:	36 hrs	16 hrs	8 hrs
ICO Ure Guard 80:	Pot Life:	30 min	60 min	60 min
	Hard Foot Traffic:	24 hrs	10-12 hrs	4 hrs

Color Availability

Full broadcast available in nine standard blends.
Partial broadcast available in wide variety of color flakes and blends.

Packaging and Coverage Rates

Basic Kit- 500SF @25-30 mils – consists of 4 gal, **ICO Coat**; 4 gal, **ICO Sealer** or **ICO Ure Guard 80** and 75# Flakes(20# for partial broadcast).

Bulk Pack-5000SF @ 25-30mils – consists of 40 gal, **ICO Coat**, 40 gal, **ICO Sealer** and 715# Flakes (220# for partial broadcast).

Installation

1. New concrete should be allowed to cure for at least 30 days. If not possible, then measure rate of moisture evaporation with plastic sheet and contact ICO Tech Service.
2. Prepare concrete by mechanical means, preferably by shot blasting, to leave a clean abraded surface. In case of old coated concrete, remove all old coating that is loose.
3. For a more uniform finish, rout out all cracks and control joints and fill flush with **ICO Gel** and allow to dry tack free.
4. For less-than-28 day old concrete, or for damp concrete, prime first with **ICO Primer LV or LVFC** and allow to dry tack free.
5. Apply first coat of **ICO Coat**, pigmented to match the most predominant flake color, at a coverage rate of about 125SF/Gal. Broadcast in flakes to the still-wet surface. If a full broadcast, make sure the flakes totally hide the base coat. If a partial broadcast is desired and the floor is exposed to UV light, we recommend a thin top coat of **ICO Ure Guard 60** pigmented to match the **ICO Coat** be applied and flakes broadcast into that coat. Allow floor to dry hard.

Note: To minimize any effects of pigment absorption into a full flake system, it is best to apply the pigmented base coat in two thin coats rather than one coat.

6. Lightly screen or sand the floor to remove high spots and any loose flakes, then apply **ICO Sealer** at about 125SF/gal or **ICO Ure Guard 80** at 100SF/gal to seal the flakes. For a smoother surface, apply a second clear coat..

Note: Do not apply below 50°F.

Precautions

Avoid skin contact with liquids as they may cause skin irritation to some people. If applying Ure Guard 60 and/or 80 respirators must be used if applied in enclosed spaces (see MSDS for details). Cleanup can be done with MEK, mineral spirits or toluene. Once cured, removal must be done with paint stripper.

Product Specification

The specified area shall receive an application of the **ICO-Flake™** as manufactured by **International Coatings, Inc.**, Franklin Park, Illinois. The system shall be installed by following the manufacturer's recommendations pertaining to surface preparation, mixing, and application. The base material shall be 100% solids, low odor epoxy coating with a 60 deg gloss rating of 80. The top coat shall be either a two part, 100% solids low odor clear epoxy sealer with a 60 deg gloss of 100 or 80% solids two-part polyurea with a 60 deg gloss of 80. Both base and top coats must each be a minimum of 12 mils DFT.

Mission Statement

Our mission is to provide our customers the highest possible quality products and services and by so doing, build long term relationship 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 numerous 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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