

ICO E-GROUT

Product Description

ICO E-Grout is a 100% solids, high compressive strength engineering grout. As a free flowing material it can be poured in a single pass in any thickness down to ½" without any shrinkage. With high compressive and flexural strengths, **ICO E-Grout** will provide a long term stable base without premature cracking, delamination or wear, even under high vibration and torque. It contains zero VOC's, sets up quickly (within 8 to 12 hours at 70°F), and has good chemical resistance to most low to moderate concentrations of inorganic acids, caustics, oils and greases, along with most commonly used cleaning detergents.

ICO E-Grout is available in 0.45 cubic foot premeasured basic kits and more economical 4.5 cubic foot bulk packs in light or dark gray, red and black as well as untinted. As a zero odor product it can be used safely in confined environments without any special ventilation. It has far superior bond strengths, including damp adhesion, than cementitious based grouts. It can be applied in a temperature range of 50° to 90°F.

Product Applications

ICO E-Grout is primarily intended for use for setting heavy equipment requiring much higher compressive strengths than offered by concrete. When anchored properly it enables the machinery to operate as intended without vibration or misalignment. It is particularly useful as a base for vibrating or reciprocating machinery with its ability to withstand high torque without stress cracking. It also provides good long term chemical resistance under most lubricating oils, caustic cleaners, oils and grease without need of a top coat. For more highly corrosive environments we recommend use of our **ICO Grout CR**

Chemical Resistance

ICO E-Grout has good chemical resistance to light-medium concentrations of most inorganic acids, all caustics, oils, fuel oils, grease and lubricants. For specific chemical resistance ratings please contact ICO Tech Services.

Physical Properties

Tensile Strength (ASTM C307)	: 2980psi	Flammability	: Self extinguishing
Gardener Impact (D-2794)	: >160inch – lbs	Bond Strength to Concrete	: >400psi (concrete fails)
Flexural Strength (C-580)	: 5310psi	Water Absorption	: 0.2% in 24 hours.
Flexural Modulus (C-580)	: 5.2x 10 ⁶ psi		
Compressive Strength (C579)	: 18,370 psi		

Physical Characteristics

Density, lbs/gal.	Mixing Ratios	By Volume	By Weight	
Pt. A : 9.64	Pt. A : Pt. B	5.75:1	6.7:1	
Pt. B : 8.28	Aggregate : Liquid	3:1	5:1	
A&B Mixed : 9.45	Curing Times @	50°F	70°F	90°F
	Pot Life	30min	20min	10min
Viscosity@77°F, cps	Work Time	55min	40min	15min
Pt. A : 1020	Cure Hard	30hrs	15hrs	6hrs
Pt. B : 90				
A&B Mixed : 600	NOTE: Maximum Hardness and chemical resistance are achieved after 7 days at 77°F.			
Shelf Life				
1 year at 77°F in unopened containers.				

Color Availability

Gray, Dark Gray, Red, Black and Untinted

Packaging and Coverage Rates

0.45 cu. ft Basic : 5SF at 1" thickness
4.5 cu. ft. Bulk : 50SF at 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. New concrete should be tested by plastic sheet test for rate of moisture vapor transmission prior to application. Normally, installation can be done within 1 – 2 days of concrete pour but consult with **ICO Technical Service** prior to application.
2. The area should be mechanically prepped to obtain an abraded, sound substrate. All old coatings must be removed. Remove any surface oil, grease, etc., by chemical means prior to surface prep.
3. No primer necessary.
4. Mix Part A and Part B together with a paddle style mixer at low to medium speeds (<750rpm) for at least 30 seconds, then add in the ICO Fill E-Grout and dry tint (if any) and mix for another 30 seconds or so until totally uniform.
5. Immediately pour into a pre-waxed wooden mold – no induction time necessary. The mix is pourable but a steel trowel should be used to help smooth out the surface.
6. Allow to cure for about 24 hours @ 70°F before removing the form.
7. Clean tools with mineral spirits, toluene or xylene.

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

Precautions

1. **Do not apply below 50°F**
2. **Minimum thickness: ½”;** do not feather edge
3. **Do not whip the mix or introduce air into the mix (by lifting mixer up and down)**
4. **Do not allow mixed material to sit in bucket as this reduces working time.**

Product Specification

The specified area shall receive an application of **ICO E-Grout** as manufactured by **International Coatings, Franklin Park, IL**. The material shall be installed by precisely following the manufacturer's published recommendations. The material shall be a 100% solids epoxy grout with zero VOC and no odor. It shall be pourable in any thickness in a single pour down to ½” without need for a primer or top coat. It shall have a compressive strength of 18,370 psi, a flexural strength of 5310 psi and a tensile strength of 2980 psi. It shall be impact resistant with a minimum Gardner Impact of 160 psi.

Mission Statement

Our mission is to provide our customers with 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 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.



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

www.InternationalCoatings.com