

ICO-CAULK X™

Product Description

ICO Caulk X™ is a single component silicone sealant with a broad range of chemical resistance to acids, caustics and solvents under splash/spill conditions. It can withstand movement either in tension or compression of 50% provided proper expansion joint design is practiced. **ICO Caulk X™** stays elastic down to -65°F. It bonds to concrete, metal, wood and plastic surfaces without use of a primer. It possesses excellent weatherability. Under normal atmospheric conditions, **ICO Caulk X™** dries tack free in 2 hours and dries hard in 24 hours.

Product Application

ICO Caulk X™ is primarily used for sealing moving cracks and expansion joints in chemical processing plants and secondary containment areas. With excellent sag resistance and available in 10 oz. cartridges, it can be applied in vertical, as well as horizontal joints. **ICO Caulk X™** is particularly suited for outside tank farms subjected to wide temperature swings. With good damp adhesion, it can be applied on slab-on-grades. With no odor or toxic byproducts, **ICO Caulk X™** can also be used as an indoor sealant, under light to medium traffic. For heavier traffic, our two part epoxy caulk, **ICO Caulk™**, is preferred.

Chemical Resistance

ICO Caulk X™ is recommended for up to 72 hours immersion in the following chemicals without attack:

Acetic Acid, 10%	Diesel Fuel	Nitric Acid, 10%
Acetone	Hydrochloric Acid, 37%	Phosphoric Acid, 30%
Acrylonitrile	Isopropyl Alcohol	Skydrol
Benzene*	Lactic Acid, 10%	Sodium Hydroxide, 50%
Brake Fluid	MEK*	Styrene
Chromic Acid	Methylene Chloride*	Sulfuric Acid, 50%
Citric Acid, 20%	Mineral Spirits	Toluene*

*Some swelling present, but upon removal of liquid, elasticity unaffected

Physical Properties

Tensile Strength(D-412)	: 150 psi	Joint Movement Capability	: ± 50%
Tensile Elongation, (D-412)	: 550%	Durometer Hardness, Shore A	: 28
Tear Strength, ASTM D-624 (Die B)	: 27 psi	Weatherability (1500 hours in Atlas Weatherometer)	: Remains Elastomeric
Adhesion, Peel Strength	: 20 psi		

Physical Characteristics

Specific Gravity	1.5
Flow(slump)	0.1 inches

Shelf Life:

6 months at 77° in unopened containers.
Avoid contact with moisture prior to use.

Curing Times (@ 50% R.H., 77°F):

Working Time	30 minutes
Skinover Time	2-3 hours
Cure Time (1/8" thickness)	24 hours
Full Cure	14 days

Color Availability

Black, Gray, and Red

Packaging and Coverage Rates

(for 1/2" x 1/2" joint)

10.3 ounce cartridges	:	6 LF
1 gallon pails	:	75 LF

Installation

1. New concrete should be allowed to cure for at least 28 days.
2. Remove any existing sealant and soft board. Clean out loose debris, oil and other contaminants. Apply a backing rod material slightly larger than the opening to a depth of about one half the width.
3. **ICO Caulk X™** does not require a primer for adhesion. However, as bond is adversely affected by dust or any moisture, it is recommended to apply over a tacky primer prior to installation to assure maximum bond. **ICO Primer LV** or **ICO Primer FC™** can be used, depending on temperature and desired cure times. Refer to Installation Manual for complete details.
4. For nonporous substrates, such as metal and glazed tile, it is sufficient to wipe dry and caulk.
5. Inject caulk into joints if cartridge is used. If ordered in one gallon pails, material can be buttered in with a trowel. Areas should be masked to assure a neat line is achieved. Remove tape after caulk skins over.

Precautions

ICO Caulk X™ is a low odor material. It gives off a minor amount of methanol upon exposure to air. While not a hazardous material, it may irritate eyes. In case of eye contact, flush with water for 15 minutes. Consult Material Safety Data Sheet prior to use.

Product Specification

Where specified all joints shall be filled with **ICO Caulk X™** as supplied by **International Coatings, Franklin Park, Illinois**. The material shall be installed by precisely following the manufacturer's published recommendation pertaining to surface preparation, mixing and application. The material shall be a single component silicone base gun grade sealant. It will remain flexible at - 65°F. The cured material shall have a tensile strength of 150 psi, and elongation at break of 550%. It shall have excellent adhesion to clean concrete, metal and wood. It shall be able to resist chemical attack from 50% sulfuric, 10% nitric, 30% phosphoric, 50% sodium hydroxide and acetone for up to 72 hours.

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.

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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