



ICO UREA GUARD CAULK

Product Data Sheet

Product Description

ICO Urea Guard Caulk is a two component polyurea caulk that is fast setting with a tensile elongation of 250% that allows for sufficient flexibility to bridge narrow shrinkage cracks. With a Shore A hardness of 84 (Shore D of 33) it is able to support fork lift traffic reducing spalling at the edges. It dries tack free in 3 to 4 minutes and can be shaved in as little as one hour after application, withstanding heavy traffic in as little as two hours. As a polyurea it is UV stable and hence, suitable for outdoor application.

ICO Urea Guard Caulk is a 100% solids, zero VOC polyurea and therefore can be applied in virtually any depth at temperatures down to -20°F. With a mixing ratio of 1:1, it is easily applied by standard dual cartridges or by pumping apparatus specially designed for applying joints. It is currently available only in 22oz tubes (in a dual pack) which will cover approximately 13LF, ½" x ½". Current colors include beige, red, gray and clear.

Product Application

- Concrete Construction & Control Joints
- Crack & Joint repair for old floors
- Industrial and Commercial floors
- Freezer floors

Note that with moderate chemical resistance, **ICO Urea Guard Caulk** is intended for general industrial or commercial applications rather than high chemical exposure areas, such as food and beverage plants, chemical processing or secondary containment dikes, where our **ICO Lastic Gun Grade** or **ICO Caulk X** caulking materials are recommended. It is particularly useful for filling cracks in coolers and freezers down to -20°F

Chemical Resistance

ICO Urea Guard Caulk has excellent chemical resistance against oils, greases, fuels, caustics and some inorganic acids in low-medium concentrations. Contact **ICO Tech Services** for specific job recommendations.

Physical Properties

Tensile Strength (ASTM D-638):	1290 psi
Tensile Elongation (D-638):	250%
Hardness, Shore D (D-2240):	33
Hardness, Shore A (D-2240):	84

Mix Ratios By Volume

Part A : Part B	1:1
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Curing Times @	70°F
Gel Time	20 -30 seconds
Tack Free Time	3 – 4 min.
Cure; Light Traffic	1 hr.
Cute; Heavy Traffic	2 hrs.

Color Availability

Standard colors: gray, red, beige, and clear.

Shelf Life 1 year in proper storage in unopened containers.

Packaging and Coverage Rates

22 oz dual cartridge 13 LF @ ½" x ½"

Installation

1. Please refer to our Application Specs for detailed instructions. The joint must be clean and dry with any debris being completely removed. Saw cutting the sides of control joints or expansion joints recommended.
2. Cracks over ⅛" in width should be V notched
3. Priming is not necessary unless dampness is present, for example, on relatively new concrete pours (<28 days old), in which case use of our epoxy primer, **ICO Primer LV**, is to be used. Apply caulk after primer is tack free for ease of installation.
4. Remove the cartridge cap, followed by threading the static mixing nozzle on the

cartridge securely. Use a dispensing gun designed to fit a 600ml (300ml x 300ml) 1:1 mix ratio cartridge. Hold gun straight upward and pump caulk to top of mixer. Tilt gun down and dispense first 2 to 3 shots (until it looks uniform) into disposable cup.

5. Full joint placement is recommended for cracks and construction/contraction joints. No backer rod is required.
6. Joints should be slightly overfilled, then shaved even with adjacent slab. Note that shaving window remains open from 1 to 24 hours after application.
7. General clean-up can best be done with acetone, but mineral spirits can also be used.

Precautions

1. Very fast acting – do not attempt to hand
2. Primer LV or LVFC must be used if surface is damp
3. Do not attempt to coat over without consulting with ICO Tech Services

Product Specification

The specified area shall receive an application of ICO Urea Guard Caulk as manufactured by Milamar Coatings of Oklahoma City, Oklahoma. 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 zero VOC, low odor, two part polyurea applicable in a single pass. It shall have a tensile strength as tested under ASTM D 638 of 1290psi and a tensile elongation of 250%. It shall have a Shore D hardness of 33. The system can be used in a temperature range of -20° to 90°F. It shall have excellent adhesion to dry concrete, CMU, brick or tile. The system shall resist chemical attack from fuel oil, skydrol, greases, lubricating oils, caustics and most inorganic acids at low to medium concentrations for up to 24 hours.

LIMITED WARRANTY

Milamar Coatings products are manufactured to be free of defects in material and workmanship in meeting the properties specified on its individual Product Data Sheets. Users and installers of Milamar Coatings products are solely responsible for determining the suitability of the products for specific product applications. Milamar Coatings makes no Warranty or Guarantee, express or implied, including warranties of fitness, design compatibility or merchantability, for any particular use and shall have no responsibility or liability, including direct, indirect or consequential damages, due to injury, delay or third party claims for installation or repair. Likewise, Milamar Coatings assumes no liability of any nature for products that are adjusted in the field or that do not utilize all specified Milamar Coatings components. Should any Milamar Coatings product be proved to be defective within one year from the date of shipment, Milamar Coatings will, at its sole discretion, replace the material; issue a credit to the customer's account; or provide a cash refund for the initial, paid purchase price of the material. Potential claims regarding product quality must be received in writing by Milamar Coatings within 30 days of the discovery of such potential defect. This Warranty is exclusive of all other warranties, expressed or implied, and may only be adjusted in writing, signed by an officer of Milamar Coatings.

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