

Iso-Flex® 830 Sealant

PRODUCT DESCRIPTION

Iso-Flex 830 is a one-component, aliphatic, non-sag polyurethane sealant for sealing joints where maximum performance is required. No primer is needed for most applications. The moisture activated curing mechanism in Iso-Flex 830 provides a resilient surface that is less susceptible to dirt pick-up and abrasion, and will suffer no distortion under continued movement. Weathering properties of Iso-Flex 830 are unsurpassed by any other polyurethane sealant.

BASIC USES

An excellent general purpose product designed for use in such diverse applications as precast panel joints, retaining walls, sash to masonry, control joints and many other building applications. Iso-Flex 830 is designed for indoor or outdoor use.

ADVANTAGES

- No mixing required.
- Non-sag consistency.
- Excellent elastomeric properties.
- Excellent adhesion to most substrates.
- Unsurpassed weathering characteristics.
- No priming required on most substrates.

PACKAGING

Available in 2 gal. containers and in 20 oz. foil pack sausages (packaged 12 per carton)

STANDARD COLORS

Mortar Grey, Concrete Grey, Limestone, Bronze, Off White. *(Special colors available on request)*

APPLICABLE STANDARDS

ASTM C920, Type S, Grade NS, Class 25, Use T, NT, M, A & O.

INSTALLATION

Joint Design: Iso-Flex 830 will provide maximum performance when applied to joints which have been properly designed. Minimum width should be at least 4 times the anticipated annual movement, but not less than ¼". For joints ¼" to ½" wide, the width and depth should be equal. For example, joints 3/8" wide should have a sealant depth of 3/8". Joints greater than ½" wide should have a sealant depth of ½" only.

Backing Material: Joint backing should be used to control the depth of the joint to the recommended sealant thickness, and to prevent three-sided adhesion. The joint should be backed by polyurethane foam, closed cell polyethylene, neoprene, butyl, or an adhesive backed polyethylene tape.

TECHNICAL DATA FROM LABORATORY TESTS

(Field Properties May Vary)

Property	Test Method	Test Results
Tensile Strength	ASTM D412	250 psi
Adhesion-in-Peel	ASTM C794	20 lbs.
Ultimate Elongation	ASTM D412	800%
Hardness (Shore A)	ASTM C661	25 ± 5
Weight Loss	ASTM C792	8% max.
Weep & Sag	ASTM C639	None
Tack Free Time	ASTM C679	4 hrs.
Accelerated Weathering Tests:		
QUV	6000 hrs.	No significant change
EMMAQUA (Accelerated Desert Exposure Test)	2 years	Excellent
Staining	ASTM C510	None
Service Temperature	—	-40°F to 180°F
Application Temperature	—	+40°F to 110°F
Shelf Life @ 75°F / 50%RH		
Foil Packs		6 months
Bulk		3 months (in sealed containers)

Joint backing must be thoroughly dry at time of sealant application. Care should be taken not to puncture closed cell backing materials. Sand or other non-compressible materials should not be used as a backing material.

Surface Preparation: Thorough surface preparation is essential. Joint surfaces must be dry, clean, free of dust or form release agents and structurally sound. New concrete and mortar must be fully cured. Grind or sandblast the joint edges to remove laitance, unsound concrete and contaminants. When grinding do not glaze surface. Primer is not normally required for common substrates such as concrete, aluminum, brick or unfinished wood. Consult manufacturer for use with water immersion conditions. A field adhesion test is recommended prior to general application.

Application: Iso-Flex 830 is supplied in a non-sag consistency which will gun easily with conventional caulking equipment. Fill the joint completely and tool immediately to ensure full contact with the interfaces of the joint.

Curing: Cure time will vary with temperature and humidity. At 75°F and 50%RH, a surface skin will form within 4 hours with full cure in 5 to 7 days, depending upon depth. The cure rate is reduced at lower temperatures and less humidity.

Cleaning: Remove all excess sealant and smears adjacent to the joint with solvent as work progresses. Clean application equipment with solvent before sealant cures.

PRECAUTIONS

Use Iso-Flex 830 with adequate ventilation and personal protection. Refer to Material Safety Data Sheet for detailed health and safety information prior to use.

MAINTENANCE

Damaged sealant may be repaired in the field using methods approved by the manufacturer.

WARRANTY

LymTal warrants that its products are manufactured free of defects and conform to the technical data listed. Under this warranty we will replace, at no charge, any material proven defective when applied in accordance with our written instructions for applications recommended by us as suitable for subject product. LymTal shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use of the product.

Revised: 10/07

LymTal International, Inc.

4150 South Lapeer Road • Lake Orion, MI 48359 • Tel (248) 373-8100 • Fax (248) 373-3480 • www.lymtal.com