



Iso-Flex® 825 Sealant

PRODUCT DESCRIPTION

Iso-Flex 825 sealant is a universal grade, general purpose all-weather sealant. The product is one-component, non-sag and zero VOC. This LymTal formulated silyl terminated modified polyether incorporates nanotechnology in its formulation that strongly influences the mechanical properties of the material, including elasticity and increased stability.

This technology and the advanced performance provided creates a sealant system that may be installed primer-free in most common applications. The rapid curing nature of the system also makes low temperature installation possible.

The unique chemistry of **Iso-Flex 825** provides a resilient surface that is less susceptible to dirt pickup, abrasion and surface cracking. The sealant also provides a high level of resiliency with +100%/-50% movement, and thus will suffer no distortion under repeated movement cycles.

This compilation of features makes **Iso-Flex 825** sealant ideal for most all architectural finish treatments as well as all structural sealing requirements.

BASIC USES

This resilient joint sealant is used in such widely diverse applications as precast concrete structures, panel joints, retaining walls, control joints and many other building construction applications. Iso-Flex 825 requires no priming on most common construction materials such as concrete, stone, brick, aluminum, etc.

ADVANTAGES

Weather Stable: The silyl terminated polyether chemistry provides excellent weather stability, including exposure to UV.

Excellent Adhesion: Tenacious adhesion to most substrates requiring no primer.

Paintable Surface: Once fully cured the sealant surface accepts most common paint systems.

Custom Colors: In addition to 7 standard colors, the sealant can be tint matched to customer provided color chip samples.

High Movement: The advanced physical properties of the sealant allow for movement of +100% and -50%.

Non-Staining: The sealant is commonly applied to concrete, stone and other surfaces without concern for staining of the substrate.

LIMITATIONS

Iso-Flex 825 is not recommended on clear glazing applications. A primer must be used for applications that are immersed in water.

PACKAGING

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

STANDARD COLOR

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

APPLICABLE STANDARDS

Iso-Flex 825 meets the performance standards of ASTM C-920, Type S, Grade NS, Class 100/50, Use T, NT, M, A, and O.

INSTALLATION

Preparatory Work: 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. A primer may be required in severe water immersion conditions. A field adhesion test is recommended prior to general application.

Application: Iso-Flex 825 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 2 hours with full cure in 1 to 5 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.

TECHNICAL DATA FROM LABORATORY TESTS (Field Properties May Vary)		
Property	Test Method	Test Results
Weight per gal.	—	12.2 lbs.
Hardness (Shore A)	ASTM C661	25 ± 5
Movement Capability	ASTM C719	+100% / -50%
Weight Loss	ASTM C792	Nil
Adhesion-in-peel	ASTM C794	20 lbs.
Cure Time @ 25 *C	—	1 – 5 days Depends on Sealant thickness
Shelf Life @ 25 *C		Upto 12 months in sealed container
Tensile Strength	ASTM D412	150 psi
Elongation	ASTM D412	600%
Tear Strength	ASTM D1004	30 pli
Weathering Resistance	QUV – 313B Bulb	Little change after 5000 hours

PRECAUTIONS

Use Iso-Flex 825 with adequate ventilation and personal protection. Refer to Material Safety Data Sheet for detailed health and safety information prior to use.

MAINTENANCE

Damaged sealant can be repaired or replaced. Consult the manufacturer for specific recommendations.

WARANTY

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.

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LymTal International, Inc.

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