

Iso-Flex® 881R Sealant (Primerless)

PRODUCT DESCRIPTION

Iso-Flex 881R is a two-component, non-sag, excellent weathering polyurethane, chemically curing, **Primerless**, elastomeric Sealant for use in engineered joints.

BASIC USES

Typical applications include: both in vertical and horizontal control joint and small expansion joint systems for parking structures, stadiums, plazas, water and sewage treatment facilities, and other types of concrete construction. Iso-Flex 881R is unsurpassed in toughness and durability. Iso-Flex 881R can be used in all critical installations and where ever traffic is involved.

ADVANTAGES

- Iso-Flex 881R sealant cures rapidly to a tough elastomer, having exceptional resistance to wheel and foot traffic.
- Iso-Flex 881R sealant has been designed for use as a **primerless** sealant.
- Easy to mix two-component non-sag sealant
- Available in wide range of colors
- Paintable with both water and oil base paints.
- Jet Fuel resistant.
- Exceptional cut and tear resistance.
- Capable of +/- 50 % Joint Movement. High elasticity with tough, durable, flexible consistency.
- Chemical cure which allows the sealant to be placed in deep joints at low temperatures, as low as 40 °F.
- Ideal for both Vertical & Horizontal Joints with minimum depth of ¼ inch.
- Adheres to most substrates commonly found in construction.
- Good resistance to water, diluted acids, diluted, alkalines, and residential sewage. Consult Technical Service for specific data.
- Excellent Weathering Resistance.

LIMITATIONS

- Performance of this sealant is closely related to preparation, application techniques and structural behavior. Installation conditions should be as recommended by the manufacturer.
- Install at 40°F (5°C) or above. Condition Material to 65°-85°F before using.
- Priming typically not necessary. Most substrates only require primer if sealant is subject to full water Immersion after curing. Testing should be performed on questionable substrate to determine if primer is needed. Most Exterior Insulation Finish Systems (EIFS) recommend the use of primer. Consult Technical Service for specific primer.
- When overcoating, an onsite test is recommended to determine actual capability.
- Maximum expansion and contraction should not exceed 50 % of average joint width.
- Does not bond to silicone compounds.
- Avoid contact with alcohol and other solvent cleaners during cure. Avoid exposure to high levels of chlorine.

PACKAGING

Available in 1.75 gallon units.

COVERAGE

1 gal. yields 77 lineal feet in a ½ in. x ½ in. joint.

STANDARD COLORS

Mortar Grey, Concrete Grey, Black, Off White
(Special colors available on request at additional cost)

APPLICABLE STANDARDS

Iso-Flex 881R will meet and exceed the requirements of ASTM C920, Type M, Class 50. Use T, NT, M, A, O, I and Federal Specification TT-S-00227E, Type II, Class A. Tested in accordance with ASTM C-1382 for use in EIFS systems.

INSTALLATION

Preparatory Work: Thorough surface preparation is essential. It is required that joint interfaces be dry, clean and sound for an effective sealant application. Grind or sandblast the joint edges to remove laitance, unsound concrete and contaminants. When grinding do not glaze surface.

Bond Breaker: Sealant should not be applied directly over cork or fiberboard fillers, which are usually damp and not tight in the joints. Apply over properly installed backer rod and/or bond breaker. Use foam fillers as recommended by the manufacturer.

Applications: All joints must be carefully surface prepared (mechanically abraded), cleaned, sound and free from oils, and grease or any foreign matter that might prevent bond. If primer is needed, joints must be thoroughly primed, using prescribed primers. Sealant should be mixed well for 3-5 minutes, then applied to the joint with conventional caulking equipment. Fill the joint completely and tool immediately to ensure full contact with the interfaces of the joint.

Caution: Joints should be protected from water immersion, due to rain or snow, during the initial cure. Iso-Flex 881R Sealant should not be installed over damp or wet fillers (or substrates).

MAINTENANCE

In the event of damage to the sealant in the joints, proven procedures are available for repairing and rebonding Iso-Flex Sealants to the existing sealant.

PRECAUTIONS

Use Iso-Flex 881R with adequate ventilation and personal protection. Refer to Material Safety Data Sheet for detailed health and safety information prior to use.

TECHNICAL DATA FROM LABORATORY TESTS		
Property	Test Method	Test Results
Movement Capability	ASTM C719	± 50 %
Tensile Strength	ASTM D412	180 psi
Ultimate Elongation	ASTM D412	700 %
Hardness (Shore A)	ASTM C661	32 ± 5
100% Modulus	ASTM D412	60 psi
Tear Strength	ASTM D624	115 psi
Low Temperature (Flexibility @ -40°F)	ASTM D1790	Pass
Heat Aging, Wt Loss	ASTM C920	2 %
Shelf Life @ 70°F Sealed Container		12 months
Cure Rate	ASTM, C-679	Tack Free 8-12 hrs. Full cure 3 days.
Recovery	ASTM C920 Bond Durability Test. Blocked @ 50% for 48 hours	98 %
Water Immersion	Samples between masonry blocks will withstand water immersion while elongated 50% (Primed Surface)	

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

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LymTal International, Inc.

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