

ISO-FLEX® 880 SERIES

880GB self-leveling and 881 non-sag sealants

DESCRIPTION:

ISO-FLEX® 880 series sealants include ISO-FLEX 880GB self-leveling sealants and ISO-FLEX 881 non-sag sealants. The products are two-component urethane sealants for use in engineered joints.

BASIC USE:

Typical applications include control joint and expansion joint systems for parking structures, stadiums, plazas, water and sewage treatment facilities, and other types of concrete construction. ISO-FLEX 880GB and ISO-FLEX 881 sealants are unsurpassed in toughness and durability. The Series should be used in all critical installations and whenever wheel traffic is involved.

ADVANTAGES:

- ISO-FLEX two-part urethane sealants cure rapidly to a tough elastomer offering exceptional resistance to wheel and foot traffic.
- ISO-FLEX sealants have been designed for use under extended water immersion.
- ISO-FLEX 880GB and ISO-FLEX 881 polyurethane sealants contain no asphalt or coal tar additives and are among the most dimensionally stable sealants available.
- Field experience since 1,960 and 4,000 hours of accelerated weathering in the "Weather-O-Meter" demonstrate the outstanding durability of ISO-FLEX 880 Series polyurethane sealants.

COMPOSITION AND MATERIALS:

ISO-FLEX 880GB and ISO-FLEX 881 sealants are two-component polyurethane sealants of a chemically curing type.

STANDARD COLOR:

Mortar Gray (Special colors available upon request).

PACKAGING:

ISO-FLEX 880GB sealant is available in 1.75 gallon (6.62 liter) and 5 gallon (18.93 liter) units. ISO-FLEX 881 sealant is available in 1.75 gallon (6.62 liter) units.

APPLICABLE STANDARDS:

ISO-FLEX 880GB and ISO-FLEX 881 sealants will meet and exceed the requirements of ASTM C920, Type M, Class 25, Use T, NT, M.

TECHNICAL DATA:

(Field Properties May Vary)

Property Test Method	ISO-FLEX 880GB Sealant Results	ISO-FLEX 881 Sealant Results
Movement Capability ASTM C719	±25%	±25
Tensile Strength ASTM D412	225 psi	300 psi
Ultimate Elongation ASTM D412	750%	600%
Shore A ASTM C661	30±5	30±5
Low Temperature Flexibility @-40°F (-4.4°C)	Pass	Pass
Heat Aging ASTM C920	2%	6%
Shelf Life @70°F (21°C)	9 months	6 months
Recovery ASTM C920 <i>Bond Durability Test Blocked @ 25% for 48 hrs.</i>	98%	98%

NOTE:

TECHNICAL DATA, shown above, is based on performance of new material only. Once applied, material properties are likely to be affected over time due to environmental factors such as aggressive UV exposure and/or extreme temperatures.

INSTALLATION:

Preparatory Work:

Thorough surface preparation, to ensure a dry, clean, sound joint edge, is essential to a good horizontal joint sealant application. Joint edges should have a tooled radius wherever possible.

Joints should be cleaned either by hand or power wire brushing, or grinding the edge to assure a clean, sound substrate.

Installation should take place at a temperature of 40 degrees F (4.4 degrees C) or higher.

Bond Breaker:

Sealant should not be applied directly over cork or fiberboard fillers, which are usually damp and not tight in the joints. These fillers should be cut out deep enough to allow insertion of proper size filler, to obtain tight back-up and bond breaker. Use foam fillers as recommended by the manufacturer.

Methods:

All joints must be carefully and thoroughly primed, using prescribed primers. Sealant is mixed and applied to the joint with a caulking gun, keeping sealant slightly low in the joint. Sealants have work life and cure time dependent on temperature.

Caution:

Joints should be protected from water immersion, due to rain or snow, during the initial cure. ISO-FLEX 880 Series Sealants should not be installed over damp or wet fillers.

PRECAUTIONS:

Use product with adequate ventilation and personal protection. Refer to the Material Safety Data Sheet (MSDS) for detailed health and safety information prior to use.

MAINTENANCE:

In the event of damage to sealant in the joints, proven procedures are available for repairing and rebonding Iso-Flex to the existing sealant. Contact your local Master Builders representative for details.

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