

ITEM NUMBER CE550

CE550 Segmental Bridge Adhesive (SBA) is a solvent free, two-component, high modulus, moisture-insensitive epoxy adhesive designed to bond and seal segmental precast elements. It conforms to the current ASTM C 881, Type VI requirements. It is available in three application temperature ranges, LT (low temperature), MT (medium temperature), and HT (high temperature). Each is specifically designed for use in the following temperature ranges:

SBA-LT: 40°F - 65°F (4°C - 18°C)
SBA-MT: 60°F - 85°F (16°C - 29°C)
SBA-HT: 80°F - 115°F (27°C - 46°C)

➤ **USE**

A high performance adhesive for bonding and sealing segmental precast elements with internal tendons and for span-by-span erection when temporary post tensioning is applied. It can also be used as a repair mortar for concrete patching and structure repair.

➤ **BENEFITS**

Insensitive to moisture during application, curing, and in service.
Three formulations accommodate wide temperature range installations.
High strength, high modulus.
Non-sag consistency allows vertical and overhead installation.
Lubricates surfaces for easy location & positioning of shear keys.

➤ **COVERAGE**

At a film thickness of 1/16" (1.6 mm) the yield is 26 sq. ft. / gal. (2.4 sq. m. / L).
Coverage rate is approximate and depends on porosity and profile of concrete.

➤ **PACKAGING**

Factory proportioned unit.
Shelf Life is two years in original unopened container.
Store dry at 40°F - 95°F (4°C - 35°C). Condition material to 70°F - 75°F (21°C - 24°C) before using.

➤ **TECHNICAL DATA**

Laboratory Test	Results	Specification
ASTM C881 Consistency	¼ inch (6.0 mm) no sag	¼ inch no sag
ASTM C881 Gel Time	45 minutes	30 minutes minimum
Open Time (65°F, 85°F, 115°F)	60 minutes	
ASTM C882 Contact Strength, 2-day	1,400 psi (9.7 MPa)	1,000 psi minimum
ASTM D695 Compressive Strength 1-day	3,000 psi (20.7 MPa)	2,000 psi minimum
ASTM D695 Compressive Strength 2-day	7,000 psi (48.3 MPa)	6,000 psi minimum
ASTM C882 Bond Strength 2-day Moist	1,400 psi (9.7 MPa)	1,000 psi minimum
ASTM D648 Heat Deflection Temperature	140 °F (60 °C)	120 °F

➤ **APPLICATION**

Surface Preparation: Surfaces must be clean, sound, and free from frost, standing water, laitance, form release agents, curing compounds and other contaminants. Surfaces may be dry or damp.

Mixing: SBA is supplied in factory proportioned units comprised of the correct quantities of Part A (resin) and Part B (hardener). Pre-mix each component separately using a slow speed drill (400 rpm).

Pour Part B to Part A pail and mix thoroughly for 3 minutes until a uniform gray color is achieved. Mix only the quantity that can be used within its gel time.

Application: Using a trowel, brush, or gloved hand, apply SBA to the prepared surfaces of both segments to be joined. Work into the substrate to ensure complete wetting out of the surface area. Secure the segments firmly together within the open working time of the epoxy.

➤ **CAUTIONS**

Component A – Irritant



CE550 SBA

SEGMENTAL BRIDGE ADHESIVE

Component B – Corrosive

Product is a strong sensitizer. Use of safety goggles and chemical resistant gloves are recommended.

Use of a NIOSH/MSHA organic vapor respirator is recommended if ventilation is inadequate.

Avoid breathing vapors.

Avoid skin contact.

➤ **FIRST AID**

Cured SBA is innocuous.

For uncured SBA:

SKIN CONTACT – Remove contaminated clothing. Remove product with an absorbent cloth. Wash skin area thoroughly with soap and water. (Solvents should not be used because they carry product into the skin.)

EYE CONTACT – Flush eyes immediately with water for a minimum of 15 minutes. Contact physician immediately.

RESPIRATORY PROBLEMS – Seek fresh air and/or medical attention.

➤ **CLEANUP**

Uncured SBA can be removed with approved solvent. Collect with absorbent material. Flush area with water. Dispose of in accordance with local, state, and federal disposal regulations. Cured SBA can only be removed mechanically.

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