



Epoxy.com Product #703

100% Solids Semi-Flexible Epoxy Bonder

DESCRIPTION:

Epoxy.com Product #703 Semi-Flexible Epoxy Bonder is a 100% solids, moisture insensitive epoxy resin system, containing no solvents. When mixed at a 2:1 ratio by volume, it produces a non-sagging material that is ideal for repairs on vertical or overhead surfaces. **Product #703** exceeds the requirements of ASTM C 881-87, Types I, II, and III Grade 3, Class "B", "C", "E" and "F".

ADVANTAGES:

- Product #703** will bond to damp or dry surfaces.
- Product #703** may be feather-edged and will not shrink.
- Product #703** is readily dispensed into narrow slots and holes from cartridge dispensers.
- Product #703** has excellent resistance to gasoline, oil, sewage and aggressive water.

PHYSICAL PROPERTIES:

Gel Time @ 72° F (22.2° C) ± 2°	30 minutes minimum
Physical	
Tensile Strength @ 72° F (22.2° C) (ASTM D 638)	5,000 p.s.i minimum (34.5 MPa)
Linear Coefficient of Shrinkage on cure (ASTM D 2566)	0.005
Compressive Strength (ASTM C 109 Modified)	11,000 + p.s.i minimum (75.8 MPa)
Compressive Modulus (ASTM D 695)	200,000 + (1379 MPa)
Bond Strength (Slant Shear) (ASTM C 882-78)	
7 days	3,000 p.s.i minimum (20.7 MPa)
2 day moist cure	1,000 p.s.i + (6.9 MPa)
14 day moist cure	1,500 p.s.i + (10.3 MPa)
Electrical	
Dielectric Strength, S/T	Volt per mil 440-465
Dielectric Constant	60 HZ 3.4 - 3.5
	10 ⁶ HZ 3.3 - 3.4
Power Factor	60 HZ 0.006 - 0.007
	10 ⁶ HZ 0.03 - 0.04

SURFACE PREPARATION:

For best results, areas to receive the **Epoxy.com Product #703** should be free of laitance, grease, oil, and any other contaminants that would inhibit bond. Sandblasting, waterblasting, or wire brushing, or dust free grinding for surface preparation are recommended.

MIXING:

Double Barrel Gun: With the use of static mixers in double barrel guns, no prior mixing is required.

Mixing: For large volume jobs to be mixed in 5 gallon pails or other suitable mixers where fillers such as Product #75 or other oven dry silica sands are used, for best results combine two parts by volume of Component "A" with one part by volume of Component "B" of **Product #703** in a clean pail, using a slow speed drill and an **Epoxy.com Mixing Paddle**. Mix for a minimum of three (3) minutes to a uniform consistency. To obtain a mortar, slowly add a maximum of one part by volume of **Product #75 Filler** while continuing to mix.

COVERAGE: When used neat, a 3 gallon unit of **Product #703** will cover approximately 80 square feet (7.4 m²) at a 20 mil thickness. You can also consult the Epoxy.com [Neat \(unfilled\) Resin Calculator](#). When used as a mortar, a 3 gallon unit of **Product #703**, mixed with 3 gallons by volume of **#75 Filler**, will yield approximately 1,050 cubic inches of mortar. If using this as an anchor bolt, or dowel bar adhesive, you can double check your volume with the [Epoxy.com Dowel Bar and Anchor Bolt Adhesive Calculator](#).

LIMITATIONS: **Product #703** should not be applied when surface temperatures are below 40° F (4.4° C). For best results, do not exceed one part by volume of **#75 Filler** to one part by volume of mixed **Product #703**.

Notes:

CAUTION: WARNING! A Component contains epoxy resin. **DANGER!** B Component contains alkaline amines; strong sensitizer. May cause skin sensitization or other allergic responses. Use with good ventilation, particularly if it is heated or sprayed. Prevent all contact with skin and eyes. Wear protective clothing, goggles, gloves and/or barrier creams. Keep container closed when not in use. Wash thoroughly after handling.

FIRST AID: In case of skin contact, immediately wash with soap and water. In case of eye contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If irritation persists, seek medical attention. Wash clothing before reuse.

**FOR INDUSTRIAL USE ONLY
KEEP AWAY FROM CHILDREN**

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