



SPEED BOND #1

DESCRIPTION:

SPEED BOND #1 is a two component, 100% solids, high strength, epoxy gel adhesive designed to anchor dowel bars, bolts and pins into concrete.

APPLICATIONS:

Anchoring Dowel Bars, Bolts and Pins

ADVANTAGES:

- Flowable Gel
 - High Strength
 - Moisture Insensitive
 - Excellent Bond Strength
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CONFORMS TO:

ASTM C-881
Type I and II
Grade 3
Class A, B, and C

PACKAGING:

2 Quart Units
2 Gallon Units
10 Gallon Units
22 Ounce "Quick Mix" Cartridges

PHYSICAL PROPERTIES AT 77° F (25° C)

MIX RATIO A:B 1:1 By Volume

VISCOSITY Flowable Gel

COLOR Concrete Gray

POT LIFE	<u>60 gram</u>	<u>½ gallon</u>	<u>Tack Free (1/8")</u>
90° F (32° C)	4 min	3 min	40 min
73° F (23° C)	8 min	7 min	1 hr 30 min
50° F (10° C)	18 min	10 min	2 hr 15 min

COVERAGE (neat) 231 cubic inches per gal

TEST DATA (STRENGTHS REPORTED IN P.S.I.)

COMPRESSIVE STRENGTH	ASTM D-695	7,050 psi
COMPRESSIVE MOE	ASTM D-695	230,000 psi

TENSILE STRENGTH	ASTM D-638	2,900 psi
TENSILE MOE	ASTM D-638	167,000 psi

BOND STRENGTH 2 Day (dry)	ASTM C-882	3,337 psi
14 Day (wet)		3,510 psi

ELONGATION	ASTM D-638	1.8%
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SHORE HARDNESS	D SCALE	85
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WATER ABSORPTION	ASTM D-570	.7%
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CONFINED TENSION	ASTM E 1512	2,456 psi
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DAMP-HOLE INSTALLATION	ASTM E 1512	1,692 psi
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ELEVATED TEMPERATURE	ASTM E 1512	2,304 psi
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LONG TERM LOAD (CREEP)	ASTM E 1512	1,840 psi
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APPLICATION TECHNIQUES

MATERIAL CONDITIONING: Pre condition materials 65° - 85° F (18° - 29° C) before using.

SURFACE PREPARATION: Surface must be clean and free of any dust, oil, grease, laitance, curing compounds, or other contaminants. This should be achieved by blowing out the drill hole with oil free compressed air.

MIXING CONSIDERATIONS: Measure exactly 1 part "A" to 1 part "B" by volume into a clean pail. Only mix the amount of material that can be used within the pot life. Mix epoxy for three minutes using a low speed drill with a mixing paddle (never mix by hand). Scrape the sides and bottom of the pail while mixing. The use of automatic meter/mix equipment or "Quick Mix" cartridges is recommended.

NOTE: *This product sets up extremely fast. Be careful how much you attempt to mix up at a time.*

INSTALLING MATERIAL

GROUTING BOLTS AND ANCHOR BARS - Hole size should be no more than 1/8" larger than bar or bolt. Clean all dust out of hole and grout with neat Speed Bond #1. The use of automatic meter/mix equipment or "Quick Mix" cartridges is recommended.

Theoretical Yield Per Cartridge*

BAR SIZE / BAR NUMBER	HOLE DIAMETER	HOLE DEPTH	HOLES PER CARTRIDGE
3/8" #3	1/2"	3"	154
	1/2"	4"	115
	1/2"	5"	92
1/2" #4	5/8"	4"	89
	5/8"	5"	71
	5/8"	6"	59
5/8" #5	3/4"	6"	49
	3/4"	7"	42
	3/4"	8"	36
3/4" #6	7/8"	6"	41
	7/8"	7"	35
	7/8"	8"	31
	7/8"	9"	27
7/8" #7	1"	7"	30
	1"	8"	26
	1"	9"	23
	1"	10"	21
1" #8	1-1/8"	9"	21
	1-1/8"	10"	19
	1-1/8"	11"	17
	1-1/8"	12"	15

**Calculate actual yields to be about 75% of the figures listed above*

LIMITATIONS:

Do not use solvents to thin.
Minimum application temperature is 40° F (4°C).
Minimum age of concrete must be 21-28 days.

STORAGE:

Store in a dry environment at temperatures between 40° to 90° F (4° to 32°C).
Ideal storage temperature range is 65° to 75° F (18° to 24°C). Temperatures below 60° F (16°C) will cause epoxy to thicken making it difficult to properly blend the components. Under proper conditions, the shelf life is eighteen (18) months in unopened, damage-free containers.

PROTECT FROM MOISTURE. DO NOT ALLOW PRODUCT TO FREEZE.

WARNINGS:

"A" material may cause skin irritation. Contains epoxy resins.
"B" material may cause severe burns on skin. Contains amines.

FIRST AID:

Skin Contact - Wipe off contaminated area and wash with soap and water.
Eye Contact - Immediately flush eyes with large amounts of water for 10 minutes. Get medical attention.
Inhalation - Move to fresh air if symptoms occur. If breathing is difficult, seek medical attention.
Ingestion - If conscious give two glasses of milk or water.
Seek medical attention.
See MSDS for more information.

CLEAN UP:

Clean equipment with MEK or Xylene immediately after use. Clean skin with soap and water. Wash contaminated clothing before re-use.

WARRANTY:

Prime Resins warrants its products to be free from manufacturing defect and that products meet the published characteristics when tested in accordance with ASTM and Prime Resins standards. No other warranties by Prime Resins are expressed or implied, including no warranty of merchantability or fitness for a particular purpose. Prime Resins will not be liable for damages of any sort resulting from any claimed breach of warranty. Prime Resins' liability under this warranty is limited to replacement of material or refund of sales price of the material. There are no warranties on any product that has exceeded the "shelf life" or "expiration date" printed on the package label.

If you have any questions or comments about any of Prime Resins products or application techniques you may contact us directly at 800-321-7212, Monday through Friday 7:00 AM to 5:00 PM Eastern Time.

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