



# B-40 LV EPOXY BONDER

## 100% SOLIDS LOW VISCOSITY PRIMING ADHESIVE FOR CONCRETE

**PRODUCT DESCRIPTION:** *Specco B-40LV Epoxy Bonder* is a two-component, 100% solids, moisture insensitive epoxy resin compound formulated as a low viscosity, low modulus, flexible adhesive and mortar binder. *B-40LV Epoxy Bonder* is high strength, high elongation, waterproof and resistant to mechanical and thermal movement. Use *B-40LV Epoxy Bonder* to bond dissimilar surfaces such as bonding concrete to asphalt, or bonding concrete to steel.

### BENEFITS:

- Excellent adhesion to concrete, metal and a variety of substrates
- Low viscosity formulation allows easy roller application
- Excellent impact resistance
- Extended pot life (open time) allows more time to place topcoats
- 100% solids – solvent free composition with low odor
- Easy 1:1 mix ratio

**LEED CREDIT CONSIDERATIONS:** **EQ Credits 4.2:** Low emitting materials (VOC < 25 g/L). **MR Credits 5.2:** Regional materials- Greater than 20% extracted, processed and manufactured regionally at production location: Kankakee, IL. 60901. 90% Content- Harvested within 500 miles.

**COMPOSITION:** Modified Bisphenol A type epoxy resin with Polyamide based curing agent

PHYSICAL DATA at 70°F (21°C):	APPROXIMATE VALUES :
Composition-Part A (Resin):	100% solids, liquid epoxy resin
Composition-Part B (Cure):	Liquid polyamide/amine cure
Weight per gallon-Part A (Resin):	9.10 lb./gallon
Weight per gallon-Part B (Cure):	8.10 lb./gallon
Weight per gallon (Mixed):	8.60 lb./gallon
Color -Part A (Resin):	Clear -Gardner Scale = 3 max
Color-Part B (Cure):	Amber -Gardner Scale = 7 max.
Mixing ratio (A to B):	1 part A to 1 part B by volume
Viscosity (Mixed):	1500-1700 cps
Pot life:	90 minutes
Initial cure:	10 to 12 hours
Tensile strength: ASTM D-638	7300 psi
Tensile elongation at break: ASTM D-638	7.2%
Flexural strength: ASTM D-790	10,300 psi
Flexural deflection, inches:	0.60
Compressive strength: ASTM D-695	16,600 psi

**TECHNICAL DATA:** Formulated to meet **ASTM C-881 specifications for Types 1, 2, 4, 5, Classes B, C, Grade 1.**

**SURFACE PREPARATION:** Surface must be structurally sound, clean, dry and free of dust, dirt, oils, salts, laitance and other contaminants. Remove defective concrete, asphalt, cavities, cracks, voids, and other defects by routing to sound material. Sandblast, shot-blast or acid etch surfaces to provide a clean, absorptive substrate. Sandblast steel to a minimum gray metal finish and protect the steel from moisture following sandblasting.

**MIXING:** Pre-mix *Specco B-40LV Epoxy Bonder* part A and part B separately. Combine one part of part A base to one part of part B hardener in a clean container and mix thoroughly using a slow speed motor and paddle mixer.



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**MIXING (Continued):** Scrap the sides and bottom of the container during mixing. Do not aerate the mix. Increased volume and temperature will shorten pot life.

**DIRECTIONS FOR USE:** To use **B-40LV Epoxy Bonder** as an adhesive to bond new concrete to existing substrates such as concrete, asphalt or steel, spread the mixed epoxy with a brush, roller or squeegee in a uniform, thin layer over the cleaned surface. The new concrete must be placed while **B-40LV Epoxy Bonder** film is still tacky.

**COVERAGE:** Approximately 100-125 square feet per gallon.

**CAUTIONS:** Material must be mixed with mechanical agitation for proper dispersion and cure. Do not apply **B-40LV Epoxy Bonder** in temperatures below 40° F or to frozen, frost filled or damp surfaces.

**GHS HAZARD RATINGS: WARNING**



**Irritant: Respiratory Tract Irritation.**



**Health Hazard: Corrosive Liquid**

**WARNINGS: HEALTH HAZARD & IRRITANT:** Avoid ingestion, skin and eye contact and inhalation of the vapors. Avoid contact with skin and eyes. Wear protective clothing and safety glasses during application. Use with OSHA/NIOSH approved air (vapor) respirator. Keep away from food and drink. Do not take internally. **FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN.** Refer to product **S.D.S. (SAFETY DATA SHEET)** for **FIRST AID INFORMATION**, or any related health and safety information before using this product. For medical emergencies only, call **INFOTRAC @ 800-535-5053**.

**H.M.I.S. CODES:**

Component A: HEALTH = 2, FLAMMABILITY = 1, REACTIVITY = 0, P.PROTECTION = G.

Component B: HEALTH = 2, FLAMMABILITY = 1, REACTIVITY = 0, P.PROTECTION = G

**SHIPPING NAMES:**

Component A: Epoxy Resin / CAS# 025085-99-8 / **Not currently regulated by D.O.T.**

Component B: Polyamide Curing Agent / CAS# Mixture / **Not currently regulated by D.O.T. in limited quantity\***

**SHIPPING CLASS:** ITEM 155250, SUB 2, Freight Class 65-Concrete Bonder.

**Comp. B only: UN3082, Environmentally Hazardous Substance, Liquid, Corrosive, N.O.S., (contains Fatty Acid and Triethylenetetramine), HC9, PGIII**  
**\*Note: Not regulated by D.O.T. Note- Meets "Limited Quantity" allowances per C.F.R. Section 173.154 b(2) as the unit components are < 4L (1 gallon) size maximum per package.**

**STORAGE:** Ideal storage is between 60° to 80° F. Keep from freezing.

**SHELF LIFE:** 1 year stored properly. Depending on storage conditions, the shelf life may be extended.

**PACKAGING:** 1 gallon unit, 1 unit per case, larger unit sizes available per request

**WARRANTY:** Specco Industries Inc (Specco) solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. Unless authorized in writing by an officer of Specco, no other representations or statements made by Specco or its representatives, in writing or orally, shall alter this warranty. **SPECCO MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME.** If any Specco product fails to conform with this warranty, Specco will replace the product at no cost to Buyer. **Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages.** Specco does not authorize anyone on its behalf to make any written or oral statements which in any way alter Specco's installation information or instructions in its product literature or on its packaging labels. **Specco explicitly excludes any written or oral statements or implied warranty on the performance of an applied/installed product manufactured or sold by or through Specco. Specco has no control over Specco application standards adherence, site conditions, atmospheric variations, installer/applicator skill level or the determination of the suitability of any Specco products for a specific intended purpose. Buyer shall be solely responsible for determining the suitability of Specco's products for the Buyer's intended purposes.** Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. **Revised 03-27-20**



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