

**EVA-POX® BONDER 1**

**CSI Section 03900  
Bonding Agents**

**Eva-Pox® Bonder No. 1 is a 100% solids two component, moisture insensitive epoxy adhesive designed for adhering our pre-formed closed cell joint seals to a variety of surfaces including elastomeric concrete, concrete, steel, and many other construction materials.**

**PRODUCT DESCRIPTION:**

Eva-Pox® Bonder No. 1 is a 100% solids two component, moisture insensitive, modified epoxy adhesive specifically designed for adhering pre-formed closed cell joint seals to a variety of substrates. Additional applications include bonding cured concrete to steel, cured concrete, wood and many other construction materials. For application at temperatures down to 38°F (3°C). Meets ASTM C-881, Type I & II, Grade 2, Class B & C. For colder applications or if a faster set is required, use Eva-Pox® Cold Cure Bonder #41.

FEATURES:	BENEFITS:
<ul style="list-style-type: none"> <li>Adhesive for various construction products.</li> <li>As a grout for cracks, rebar, railings, etc</li> <li>Recommended bonding agent for pre-formed closed cell foam joint seals</li> <li>Sealing cracks and injection ports for concrete injection</li> </ul>	<ul style="list-style-type: none"> <li>High physical strengths</li> <li>Easy to mix</li> <li>Ideal working time</li> <li>Moisture insensitive</li> <li>Meets ASTM C-881, Typ I &amp; II, Grade 2, Class B &amp; C</li> </ul>

**USES:**

**Application**

- Bonding pre-formed closed cell foam joint seals to substrates
- Primer for our E-Crete #57 elastomeric concrete
- Bonding typical construction materials together
- Grouting equipment/base plates

**Location**

- Bridges, Highways, & Tunnels
- Parking Structures
- Commercial Buildings
- Water Treatment Facilities

**Substrate**

- Elastomeric Concretes
- Cured Concrete
- Steel
- Stainless steel
- Wood

**SURFACE PREPARATION:**

**Concrete:** All oils, grease, dirt, waxes, existing coatings, curing compounds, heavy laitance and sharp edges or protrusions must be removed. New concrete should cure 80% of the design strength. Sandblasting of surfaces is highly recommended.

**Steel:** Surfaces must be clean, sound and sandblasted to a near white metal (SSPC-10) finish immediately before the application of the bonder and not the day before.

**NOTE:** Galvanized steel, aluminum, and any other specialty metal requires an acid etching primer after surface preparation such as our Eva-Pox® S.M.A.E. Primer #7.

**MIXING:**

Separately mix Components A and B thoroughly. For smaller batches, mix 3 parts of Component A with 1 part of Component B in a clean plastic or metal pail. For full gallon batches, add the small container into the 1 gallon container. Mix for approximately 3 minutes or until there is no marbling. Mix only what may be applied within the given pot life of the batch. Warmer weather, as well as larger batches, decreases the pot life of the mixed material.

**Grouting and Patching:** Add to premixed resin, clean dry silica sand at a 1:1 ratio, mixing thoroughly while adding.

TECHNICAL DATA			
Properties:	Part A	Part B	Mixed
Color:			
Gray	White	Black	Gray
Beige	White	Caramel	Beige
Mixing Ratio (By Vol.)	3	1	3:1
Specific Gravity	1.47	1.15	
Density, (lbs./gal.)			
@ 77°F	12.0±0.5	9.7±0.2	11.6±0.5
Viscosity, (cps.):			
@77°F (25°C)	35,000	33,000	26,000
Pot Life (200 gms.)			32 - 36 mins
Initial Set @ 77°F			1 1/2 - 2 hrs
Initial Cure			8 - 12 hrs
Full Chemical Cure			7 days
Properties After Cure:			
Compressive Strength	ASTM D695	.	7000 psi
Tensile Strength	ASTM D638		3500 psi
Elongation at Break	ASTM D638		3-5%
Shore D Hardness	ASTM D2240		85±5
Water Absorption	ASTM D570		0.25%
Bond Strength		.	430 psi min
Lap Shear			2000 psi min

**WARRANTY**

Manufacturer WARRANTS that the product conforms to its chemical description and is reasonably fit for the purpose stated on its Technical Bulletin when used in accordance with its directions. Manufacturer makes NO OTHER WARRANTY either expressed or implied. Buyer assumes all risk in handling. For further Technical or Application Information, contact Chase Construction Products.

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**APPLICATION:**

Eva-Pox® Bonder No. 1 may be applied by brush roller, trowel, caulking gun or by hand with rubber gloves. Apply an approximate finish of 40 to 60 mils (1016-1524 mm) covering the entire surface and filling holes or cavities. Prior to Eva-Pox® Bonder No. 1 reaching the tack stage, place second material against the adhesive. If tack stage has been reached prior to adhesion, re-apply Eva-Pox® Bonder No. 1.

**COVERAGE:**

When used as a bonding agent for construction products @ 70°F: 40 sq.ft./gallon @ 40 mils.

When used as an adhesive for pre-formed closed cell foam joint seal please use the chart below.

**NOTE:** A joint foot denotes coverage of both sides of joint material and both sides of the noted substrate.

Reference Coverage Chart: Material Joint Feet Per Gallon		
Depth	Concrete	Steel
1"	100.0'	120.0'
2"	50.0'	60.0'
3"	35.0'	40.0'
4"	25.0'	30.0'

When used as a primer for E-Crete #57 @ 70°F apply the bonding agent at 20 - 40 mils or 40 - 80 sq.ft/gallon on all exposed surfaces.

**CAUTION:**

Direct contact with skin should be avoided as it can cause skin irritation. Protective clothing, goggles and gloves are recommended. In case of direct contact with the skin, wash with soap and water. In case of accidental contact with eyes, flush immediately with plenty of water and report to a doctor. Fatal if taken internally. Keep away from open flame.

**KEEP OUT OF REACH OF CHILDREN**

**CLEAN UP:**

Use Desolv-It® to clean up prior to cure.

**PACKAGING:**

1 Gallon Units

Dual Cartridge 14.5oz / 425ml (BEIGE ONLY)

**SHELF LIFE:**

2 Years

**STORAGE CONDITIONS:**

Materials must be kept in a dry area at temperatures between

50°F and 95°F (10°C - 35°C) in the original unopened containers during all phases of delivery, storage and handling.

**DO NOT ALLOW PRODUCT TO FREEZE**

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Manufacturer WARRANTS that the product conforms to its chemical description and is reasonably fit for the purpose stated on its Technical Bulletin when used in accordance with its directions. Manufacturer makes NO OTHER WARRANTY either expressed or implied. Buyer assumes all risk in handling. For further Technical or Application Information, contact Chase Construction Products.

