

**Pro-Bonder:**

Is a 100% solids, moisture insensitive, two component, modified epoxy adhesive, developed for the construction industry for bonding various construction materials to cured concrete in high stress applications. The material has excellent adhesion to construction materials. Meets ASTM C-881, Type I & II, Grade 2, Class B & C.

**KEY Features:**

- a. Excellent adhesion to various substrates
- b. Excellent barrier against moisture
- c. Excellent barrier against Chloride ions
- d. Very good solvent and chemical resistnace.
- e. Resistance to UV and ozone exposure
- f. Safe for potable water applications
- g. Resistnace to freeze-thaw changes
- h. Usable to 45 deg. F & rising
- i. Fast cure

**Uses:**

- a. Bonding agent for, IAS Series Foam Seal & other cellular plastic glands to concrete, elastomeric concrete, steel, wood, and other construction materials.
- b. Adhering anti-skid grit to hardened surfaces
- c. Bonding cured to cured concrete.
- d. Protective coating for concrete surfaces
- e. Filling and bonding together cracks in concrete
- f. Grout and Anchoring adhesive

**Surface Preparation:**

The cleaner the substrate the better the bond. A rough surface is better than a smooth surface for a better mechanical bond. **Pro-Bonder** has excellent wetting properties to saturate the surface profile of clean concrete. For best results sandblast all surfaces to receive the Pro-Bonder. New concrete should cure 80% of designed strength prior to application. Steel surfaces should be sandblasted to SSPC-10, near white finish, immediately before the application of the Pro-Bonder. Brass, aluminum, galavnized steel and other specialty metals may require an acid etching primer. Please contact the supplier in such applications.

**Mixing:**

Stir individual components prior to mixing together if settling has occurred. Mix only the amount that can be used prior to the working time (appx.15-20 min.) expires. Warm weather causes faster set times. Mix according to specified mixing ratio with low-speed drill for 1-2 mins. or until color is uniform. Double mixing is best. Double mixing consist of mixing A & B together well in the first container then pouring this mix into a 2nd container and mix again to minimize unmixed material on bottom and side walls that often occurs in the first container.

**Application:**

Pro-Bonder may be applied by suitable spray equipment roller, trowel, brush, or by gloved hands. Apply at a rate of approximately 40-50 square feet per gallon when used as an adhesive. When used as a grout it may be used neat or mixed with clean dry quartz sand (or other fillers) at a rate of 2:1 (more or less depending on desired consistency) and applied as needed to fill voids and trowel flush. Tape edges for a cleaner job. As a coating the finish surface may be smooth, which is easy to clean but may be slippery, specially when wet. In such applications, a non-skid surface can be produced by mixing quartz in the mix or broad cast a fine aggregate onto the surface within the working time of the product. Thinning is possible if technical representative is on site.

**Packaging:**

1 gal. A, 1 qt. B = 1 gal. unit; 4 units/case

**Shelf Life:**

2 years in original unopened containers.

**Storage:**

Store between 60-95 deg. F, keep from freezing

**Protective gloves, clothes, and splash resistant glasses recommended. Direct contact with skin should be avoided as it may cause skin irritation. Fatal if taken internally. Keep from open flame.**

**NOTE:**

**Keep away from children, for PROFESSIONAL USE ONLY**

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The colder it is the longer it takes to cure. Ideal minimum application temperature is 45 deg. F and rising to cover most environmental conditions.

Here are some exceptions (without rain in forecast).

1. If the material is kept warm (75 deg F minimum) the product will be able to be used to 40 deg. F but delays in traffic return may occur depending on environmental conditions.
2. If the substrate is pre-heated to 45F min. and the Bonder is 75F the install may be performed down to 35F. However traffic is not returned until the Bonder is tack-free, which may be 4-12 hours depending on environmental conditions. Using an open flame to preheat elastomeric concrete can be detrimental to the product. Heating a 'tented' area may offer increased environmental temperatures within the tent without damage to elastomeric concrete.
3. Pro-Bonder may be used down to 35F without pre-heating the substrate if the Bonder is warmed to 85F and traffic is not allowed to be returned until 24 hrs after install as long as the temperature do not drop below 32F during this period.
4. The traffic ready time occurs when the Bonder is tack-free.

### **Suggestion for Installation of Larger Seals:**

#### **Meacham's Method:**

The installation of larger sizes of IAS Series is made easier using a pair of the simple tools in the figures below. The IAS Series may be installed dry (for later continuation) or with the Pro-Bonder (for a permanent installation). Place the prepared seal against one joint edge. Use one tool to compress the sides together then the top tool pushes the seal into the joint to the desired level.

Maximum Recommended IAS Series width is 50% larger than gap at time of installation.



Starting the 'Tail' Dry.  
Tape down protection on the concrete surface prior to mixing Pro-Bonder to minimize cleanup.



Installation of IAS Series using Pro-Bonder and unique installation tools. Remove epoxy adhesive from top of seal prior to cure to allow the seal to move freely.

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