

February 23, 2012

**To: Carlisle Representatives, Distributors and Authorized Applicators**

**Re: Cold Weather Handling of Low-VOC Products**

Carlisle offers a complete line of low-VOC bonding adhesives and primers to meet the increasing demands arising from government regulation of traditional solvent-based construction materials. In many cases, low-VOC products REQUIRE a further attention to detail with regards to the proper handling, mixing and application.

To ensure that productivity is maintained and performance is enhanced, please review and share the following storage, precautions and application tips with the appropriate personnel.

## **STORAGE**

### **Aqua Base 120**

Must be stored in original unopened containers at temperatures between 60°F (15°C) and 90°F (32°C). Unlike Low-VOC Bonding Adhesive, Aqua Base 120, which is a low-VOC **water-based** adhesive, **cannot be exposed to freezing temperatures at any time**. This includes shipment, storage, application and within 48 hours of application if the temperature is expected to drop below 32°F / 0°C. Once subjected to freezing temperatures, the product will not perform and must be disposed of.

### **Low-VOC Bonding Adhesive**

Must be stored in original unopened containers at temperatures between 60°F (15°C) and 90°F (32°C). Jobsite storage in excess of 90°F (32°C) may affect product shelf life. **Prolonged exposure to below freezing temperatures will cause the adhesive to thicken and solidify in the can. Should Low-VOC Bonding Adhesive be stored at temperatures lower than 25°F (-4°C), restore to room temperature for a minimum of 24 hours prior to use. Adhesive will perform as intended once it is returned to a liquid state.** When temperatures are expected to be consistently below 40°F, a heated enclosure or hot box is required for storage.

Visit [www.powerblanket.com](http://www.powerblanket.com) for information regarding heating equipment and distributor locations.

## **APPLICATION**

**Pail lids must be removed so that adhesive is stirred thoroughly until all settled pigments are dispersed and the cement is uniform in color.** A minimum of 5 minutes stirring is recommended with a pneumatic drill and mixing paddle.

**Adhesive must be allowed to dry until it does not string or stick to a dry finger touch.** If membrane is mated with the substrate prior to the adhesive being dry, blistering will occur.

Opened containers of Low-VOC Bonding Adhesive should be used within 48 hours. Stir adhesive occasionally while using. Adhesive will begin to thicken after this point, making it difficult to control applied thickness. In hot weather, do not leave sealed containers on roof for prolonged periods of time. In cold weather, keep material at room temperature until ready to use.

## **COVERAGE RATE (Applied to both surfaces)**

Carlisle Low-VOC Bonding Adhesive – 60 sf (5.6 sm) per gallon finished surface.  
Carlisle Aqua Base 120 – 120 sf (5.6 sm) per gallon finished surface.

Coverage rates are average and may vary due to conditions on the jobsite. Porous surfaces and substrates may require more bonding adhesive than the typical coverage rate. Performance of the roofing assembly will be diminished if the proper coverage rates are not met.

If you have any further questions or require training, please contact your local Field Service Representative or Carlisle at 1-800-479-6832.

Sincerely,



Scott J. Long  
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Carlisle Construction Materials