

Freeze-Thaw Stability

During the winter months, it is important to be aware of the freeze-thaw stability of Perma-Chink's products. The products may be exposed to freezing temperatures during transportation and storage. In any case you need to be aware of the consequences of allowing any of our products to freeze.

With the advent of waterborne coatings and sealants, comes the detrimental effect on freeze-thaw stability. Subjecting these products to freeze-thaw cycles can result in destabilization of the binder and a product that is no longer acceptable. The product may gel or coagulate, and no amount of mixing will return the product to its original condition. These types of products are not freeze-thaw stable. However, with a few exceptions most of our products are freeze-thaw stable. If a product does become frozen it needs to be thawed slowly, preferably at room temperature. Speeding up the thawing process by heating the container can seriously damage the product making it unusable. Once the product has completely thawed it will require a thorough mixing. Without a doubt it is always best to prevent any of our finishes and sealants from freezing.

As the number of freeze-thaw cycles increases, so does the extent of degradation to the binder. A continual freeze is better than a product that undergoes multiple cycles. Before applying any product that has been frozen, be sure to test a small amount to see if it is still usable.

- It is best to protect all our products from freezing.
- If it does freeze, thaw it slowly at room temperature then thoroughly mix it.
- It is better to keep it frozen than to subject it to multiple freeze-thaw cycles.
- Before applying any product that is been frozen be sure to test a small amount to determine if it is still usable.

Perma-Chink Systems' products that are NOT freeze-thaw stable:

- Chink Paint™
- Log End Seal™
- Oxcon™

Perma-Chink Systems' products that have limited freeze-thaw stability:

- LIFELINE™ Ultra 7

For information about cold weather storage of Shell-Guard® and Shell-Guard® RTU see "Storing Borate Solutions."