**FreezBan NC™**

**Product Description**

FreezBan NC™ is a set accelerating/water reducing liquid admixture for concrete and mortar and is formulated without calcium chloride or chloride ions. It does not promote corrosion and may be used in areas having contact with reinforcing steel, door and window jambs or other metallic building materials. FreezBan NC improves the workability and finishing characteristics of concrete and mortar placed in cold weather.

**Uses**

- Plain concrete and mortar placements down to 15°F/-9°C
- Setting brick, block, glass block and structural clay tile
- Stucco and other masonry finishes prohibiting the use of chlorides
- Specifications calling for a noncorrosive, nonchloride accelerating admixture
- Precast, post-tensioned and cast in place structural concrete, slabs on grade

**Advantages**

- Increases early and ultimate strength
- Hardens and densifies
- Improves workability and minimizes shrinkage
- No efflorescence
- Permits job completion during cold weather

**Technical Data**

FreezBan NC fully complies with the requirements of the following specifications for accelerating admixtures in concrete and masonry mortar:

- ASTM C-494, Type E
- AASHTO M-194, Type E
- U.S. Army Corps of Engineers CRD-C-87, Type E

**Estimating Guide**

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Masonry Mortar Per Bag</th>
<th>Portland Cement Per Hwt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Above 32°F/0°C</td>
<td>1.5 pint/ 0.7 L</td>
<td>1.5 quart/ 1.4 L</td>
</tr>
<tr>
<td>Above 25°F/—4°C</td>
<td>1 quart/ 0.9 L</td>
<td>2 quart/ 1.9 L</td>
</tr>
<tr>
<td>Above 15°F/—9°C</td>
<td>1.5 quart/ 1.4 L</td>
<td>3 quart/ 2.8 L</td>
</tr>
</tbody>
</table>

**Packaging**

FreezBan NC is available in 55 U.S. gallon/208 Liter drums and 5 U.S. gallon/18.9 Liter pails, shipped 36 per pallet shrink wrapped.

**Directions**

Add FreezBan NC directly to the gauging water for each batch of mortar or concrete. Under no circumstances should FreezBan NC be added to the cement or dry mortar. To obtain maximum results:

- Keep masonry units dry
- Use a windbreak around mortar board and mixer to minimize the chill factor
- Keep sand and gauging water ice free
- Protect work from freezing for initial 24 hours
- Keep walls dry next to metal door frames; frames may corrode due to moisture and air
- If frames are scratched or abraded, reapply a metal primer
- Test compatibility of prepared mortars before use

**Cleanup**

Clean tools or containers that come in contact with FreezBan NC with water.
STORAGE
To prevent contamination by moisture and dirt, drums that have been opened should be tightly closed and stored in horizontal position to prevent moisture accumulation on drum heads. If crystals form when FreezBan NC is stored at extreme low temperatures, raise temperature to above 30°F/-1°C and thoroughly agitate until in solution before use. Shelf life of properly stored material is one year from date of manufacture.

LIMITATIONS
• FreezBan NC changes the finishing characteristics of mortar, it should be used throughout a given surface. Stopping in the middle of a wall may create bands of joints with a noticeable difference in appearance.

• If using a white masonry mortar or white cement and white sand, there will be an apparent yellowing of the mortar.

CAUTION
Causes eye irritation on direct contact. Overexposure may cause skin and respiratory tract irritation. Do not take internally. Keep out of reach of children.

All label precautions and the MSDS must be read and understood before using this product.