



ChemMasters®

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FreezBan™

Set Accelerator
Calcium Chloride
Liquid or Bead Formulation

P R O D U C T D A T A

DESCRIPTION

FreezBan™ liquid and **FreezBan Beads** are multipurpose admixtures for use to accelerate set rates with Portland cement/lime mortar and prepared masonry mortars and non-reinforced concrete. This exclusive formulation combines an effective and time proven chemical accelerator, calcium chloride, with a powerful wetting agent.

USES

- Use when faster set times are desired with plain concrete and mortar placements down to 15°F (-9°C):
- Setting brick, concrete block, stone, glass block and structural clay tile:
- Driveways, sidewalks, patios, slabs on grade and footers not containing reinforcing steel

ADVANTAGES

- **FreezBan Beads** dissolve faster and more completely than competitive powders
- Permits masonry to bear loads sooner
- Improves adhesion, mortar density, and workability
- Increases early, tensile, and compressive strengths
- Minimizes shrinkage
- Significantly reduces efflorescence

Limed Mortars: Use 1 qt (0.9L) **Freezban** or 1 bag **FreezBan Beads** for each bag of lime added in addition to the Portland cement requirements listed above.

Packaging Part Number		
FreezBan	Packaging	Part #
Liquid	1 gal (3.78L) 4 / case	F6300.01
Liquid	5 gal (18.9L) pail 36/shrink wrapped pallet	F6300.05
Liquid	55 gal (208L) drum 4/shrink wrapped pallet	F6300.55
Liquid	275 gal (1041L) tote	F6300.275
Beads	1.5 lb (0.68kg) bags 20 bags/case	F6310.00

Estimating Guide Amount of Freezban liquid or beads per:

Temp (°F, °C)	80 lb Masonry Mortar	94 lb Portland Cement
<32, 0	1 pt (0.5L) or 0.5 bag	1qt (0.9L) or 1 bags
>25,-4	1.5 pt (0.7L) or 0.75 bag	1.5qt (1.4L) or 1.5 bag
>20, -6	1 qt (0.9L) or 1 bag	2 qt (1.9L) or 2 bags
>15, -9	1.5 qt (1.4L) or 1 bag	3 qt (2.8L) or 2 bags

TECHNICAL DATA

FreezBan and **FreezBan Beads** fully comply with the requirements of the following specifications for accelerating admixtures in concrete and masonry mortar:

- ASTM C-494, Type C
- AASHTO M-194, Type C
- Army Corps of Engineers CRD-C-87, Type C

At temperatures above 70°F (21°C), the amount of **FreezBan** may be reduced proportionately to prevent too rapid a set acceleration, but never use less than 0.5 pint (0.24 liter) of **FreezBan** or 1/8 bag of **FreezBan Beads**, per bag of masonry mortar or less than 1 pint (0.5 liter) of **FreezBan** liquid or 1/4 bag of **FreezBan Beads** per sack of cement.

DIRECTIONS

Add directly to the gauging water for each batch of mortar. Under no circumstances should **FreezBan** liquid or **FreezBan Beads** be added to the cement or 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 48 hours
- Keep walls dry next to metal door or window frames. Frames may corrode due to moisture and air
- If frames are scratched or abraded, reapply metal primer



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CLEAN UP

Clean tools or containers with water after use with **FreezBan**.

LIMITATIONS

- **FreezBan** and **FreezBan Beads** change the finishing characteristics of mortar and should be used throughout a given surface. Stopping in the middle of a surface may create bands or joints with a noticeable difference in appearance
- Note: Independent Laboratory Tests using ASTM procedures prove no discoloration or efflorescence is caused by using **FreezBan** formulations
- ChemMasters' recommends that metal surfaces such as doors, window frames, and casings not completely imbedded in mortar be coated with a rust preventative material when contacted with mortar treated with **FreezBan** products

The best prevention eliminates the two primary causes of oxidation, moisture and oxygen. Proper waterproofing of masonry construction is imperative to prevent problems often associated with the use of materials containing chloride ions. *American Concrete Institute (ACI) publication 306 Cold Weather Concreting states, "In general, corrosion of conventional reinforcement has not occurred frequently due to chloride but the real threat of an increased potential for corrosion exists where chlorides are used, particularly where there is cracking, wet and dry areas, shallow cover and permeable concrete."*

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** 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 two years from date of manufacture.

Precautions

WARNING: May be harmful if swallowed. Causes serious eye irritation. May cause respiratory irritation.

Precautionary Statements: Avoid breathing dust. Wash hands and skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear eye protection/face protection.

Keep out of reach of children.

All label precautions and the Safety Data Sheet must be read and understood before using this product. Use the most current version of the product data sheet and Safety Data Sheets available at www.chemmasters.net or call 800-486-7866.

Proper application is the responsibility of the user. ChemMasters can only make technical recommendations and cannot provide quality control on the jobsite.

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