

# FreezeTech 100

## Set Accelerator Antifreeze Concrete Admixture



### DESCRIPTION

FreezeTech 100 is a concrete admixture composed of chloride-free chemical compounds, which shortens the setting and stiffening period of the fresh concrete.

This feature provides early stripping and minimizes the risk of exposure to freezing by increasing the initial strengths without lowering the workability and late resistance of the concrete in all kinds of environmental conditions, especially in cold climate conditions.

### FIELD OF APPLICATION

- In all ready-mixed concrete classes described in TS EN 206 and TS EN 13515
- In concrete applications performed in cold weather
- In concretes that require early stripping
- In concretes that require early high endurance

### ADVANTAGES

- Increases the hydration temperature of concrete and maintains early setting.
- By lowering the freezing point of concrete water, helps to protect concrete from freezing effect.
- Does not include chloride ions. Does not cause paraphernalia corrosion.
- Increases the early strength of the concrete.

### USE

- FreezeTech 100 can be used in concrete castings made up to + 5 0C. In concrete castings to be made lower than stated temperature, additional protective measures (insulated mold, protective cover, etc.) should be taken in concrete casting in cold climate conditions.
- FreezeTech 100 is ready to use as liquid for fresh concrete mix. It is recommended that it is added to mixing water at ready-mixed concrete production station.

### STANDARDS

- **FreezeTech 100** : TS EN 934-2 Table 6  
ASTM C 494 Tip C

### CONSUMPTION

It is recommended that the total binder existing in every type of concrete class mixing design described in TS EN 206 and TS EN 13515 standards is used between the rates of 0,5% and 3 % by weight.

### STORAGE CONDITIONS AND PACKAGING

The product must be stored above -10 °C. In case the product freezes it should be carefully mixed mechanically after thawing for restitution.

It is for sale as 25 kg plastic drum, 200 kg drums, 1000 kg plastic cubitainers and bulk.

### COMPATIBILITY

FreezeTech 100 is compatible with ExtraTech, SuperTech, AirTech, ProofTech, Specialton Series TechnoChem Construction Chemicals. For its compatibility information with other additives, one should consult TechnoChem Construction Chemicals technical support unit. If one is to use more than one additive substance on mixing design, each substance should be added to the mix separately.

It can be used with all cement types compatible with FreezeTech 100, TS EN 197-1 standard and all mineral additives (fly ash, blast furnace slag, silica fume etc.) compatible with TS EN 206 and TS EN 13515 standards. For use on special types of cement, it is recommended to consult TechnoChem Construction Chemicals technical support unit.

### SAFETY INFORMATION

The additive must be kept away from the skin and eyes. In case of any contact, it must be washed with water. When contacted with eyes one must immediately rinse it with water and medical support must be taken. Protective goggles / gloves / mask should be used during the usage of the admixture.

The Material Safety Data Sheet (MSDS) should be read for detailed information.

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