

# MasterSet FZP 1

## Set Accelerating / Plasticizer Concrete Admixture EN 934 - 2: T6

### DESCRIPTION

MasterSet FZP 1 is a polynaphthalene sulfonate and nitrate salt based set accelerating/ plasticizer concrete admixture suitable for cold weather conditions that increases set acceleration and early strengths by increasing the reaction between water and cement especially at the start of set.

### FIELDS OF APPLICATION

- In the production of pumped and non-pumped concrete.
- While pouring in cold weather to protect concrete from freezing effect and when early high strength is desired.
- In precast and prefabricated concrete

### FEATURES and BENEFITS

MasterSet FZP 1 offers the following benefits:

- Reduces concrete's initial and final set time compared to concrete without admixture.
- Especially in cold weathers, protects concrete from freezing effect by giving early strength.
- MasterSet FZP 1 does not contain chloride.

### CHEMICAL MECHANISM

MasterSet FZP 1 goes into reaction with cement. When MasterSet FZP 1 is added to the mixture, it is absorbed by cement particles. MasterSet FZP 1 accelerates the reaction between cement and water at the start of set and increases hydration temperature. As a result, setting of concrete is accelerated and its early strength is positively affected

### DOSAGE

Field trials should be conducted to determine the optimum addition rates of MasterSet FZP 1. As a starting point, the following dosage range is recommended:

- *By Mass* - 1.0-2.5 kg for 100 kg cement (binder) to accelerate the set depending on cement type, cement dosage, concrete temperature and ambient temperature. When used at very cold weather conditions, it can be used up to 5.0 kg for 100 kg cement (binder)

The dosage rates given above are for typical usages, they are not meant as absolute limits, as other dosages may be utilized in special cases according to specific job conditions. If required consult Master Builders Solutions Yapı Kimyasalları Sanayi ve

Ticaret Ltd.Şti Technical Services Department for advice. Trial mixes should be carried out to ensure optimum dosage and effect. Where the concrete is to be machine finished by utilizing power float or power trowelling methods, we recommend that you contact the according to specific job conditions. If required consult Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd.Şti Technical Services Department for dosage rate guidance.

### MIXING

MasterSet FZP 1 is a ready-to-use admixture to be added to the concrete as a separate component. Optimal performance is obtained if MasterSet FZP 1 is dispensed into the concrete mix right after the addition of the first 80% of the mixing water, i.e. when all solids are wetted out. Avoid adding the admixture to the dry aggregates.

### COMPATIBILITY

MasterSet FZP 1 can be used with all types of **EN 197** Cements. For use with other special cements, contact our Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd.Şti Technical Services Department.

MasterSet FZP 1 should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing MasterSet FZP 1, they must be dispensed separately.

MasterSet FZP 1 is **not compatible** with all admixtures of MasterGlenium series.

### PACKAGING

30 kg cans.  
1000 kg tank.  
Bulk

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Product Data	
Structure of the Material	Sulfonate and Nitrate Salt Based
Appearance	Brown
Specific gravity @ 20°C	1.112 – 1.172 kg/l
pH-value	6,5-8,5
Alkali content (%)	≤ 10.00 (by mass)
Chloride content (%)	≤ 0.10 (by mass)
Corrosion behavior	Contains components only from EN 934-1:2008 , Annex A.2:Nitrate
Dangerous substances	Comply with annex AZ.
Logistics	
Shelf life	12 months if stored according to manufacturer's instructions in unopened container.
Storage conditions	Store in original sealed containers and at temperatures between 5°C and 30°C. Store under cover, out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.
Handling and transportation	Refer to MasterSet FZP 1 Safety Data Sheet.
Disposal	Refer to MasterSet FZP 1 Safety Data Sheet.

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### HEALTH AND SAFETY

\*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapor until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

### SPILLAGE

Chemical products can cause damage; clean spillage immediately.

### DISCLAIMER

"Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd.Şti." (the Company) endeavors to ensure that advice and information given in Product Data Sheets, Method Statements and Material Safety Data Sheets (all known as Product Literature) is accurate and correct. However, the Company has no control over the selection of its products for particular applications. It is important that any prospective customer, user or specifier, satisfies him/her-self that the product is suitable for the specific application. In this process, due regard should be taken of the nature and composition of the background/base and the ambient conditions both at the time of laying/applying/installing the material and when the completed work is to be brought into use. Accordingly, no liability will be accepted by the Company for the selection, by others, of a product, which is inappropriate to a particular application. Products are sold subject to the Company's standard conditions of sale and all customers, users and specifiers, should ensure that they examine the Company's latest product literature.

### CONTACT INFORMATION

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**MasterSet FZP 1** Technical Data Sheet -Revision  
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