

# MasterPozzolith 523

## Water Reducing Plasticizer Concrete Admixture EN - 934 - 2 : T2

### DESCRIPTION

MasterPozzolith 523 is a powerful plasticizer based on lignosulphonate which disperses and deflocculates the cement particles within a concrete mix. It can be used to improve workability, without the addition of extra water, or to allow reductions in the free water content of the concrete mix.

### FIELDS OF APPLICATION

- To increase / extend workability.
- To increase compressive strength.
- To effect cement economies.
- Wide dosage range enabling water reductions to produce a dense concrete with reduced permeability and reduced water penetration.
- In areas of congested reinforcement where high workability is of benefit.
- Wherever reduced water contents would be of benefit.
- In hot weather to extend workability.

### FEATURES and BENEFITS

MasterPozzolith 523 offers the following benefits:

- Significantly improves the workability of a concrete therefore reducing placing time.
- Improves the cohesive properties of the concrete helping to reduce segregation and bleed.
- Allows water reduction to be achieved whilst maintaining workability, thereby increasing strength, durability and impermeability.
- Enables economies in mix designs to be achieved.
- Improves strengths in mixes containing PFA / GGBFS and micro silica blends.

### DOSAGE

Field trials should be conducted to determine the optimum addition rates of MasterPozzolith 523. As a starting point, the following dosage range is recommended:

- *By Mass* - 0.6 to 1.2 kg per 100 kg of 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.

### DISPENSING

MasterPozzolith 523 should be dispensed through a proprietary dispenser. Details are available on request from our Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd.Şti Technical Services Department.

### EFFECTS OF OVERDOSING

A severe over dosage of MasterPozzolith 523 may result in the following:

- Retardation of initial set.
- Increase in air entrainment.
- Increase in workability.

Providing concrete is properly cured, the ultimate strength of the concrete will not be adversely affected and will generally be higher than for normal concrete.

### COMPATIBILITY

MasterPozzolith 523 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.

MasterPozzolith 523 should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing MasterPozzolith 523 they must be dispensed separately.

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### PACKAGING

1000 kg tank  
Bulk

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Product Data	
Structure of the Material	Modified Lignin Sulfonate
Appearance	Dark Brown
Specific gravity @ 20°C	1.148 – 1.208 kg/lt
pH-value	5-7
Alkali content (%)	≤ 10.0 (by mass)
Chloride content (%)	≤ 0.10 (by mass)
Corrosion behavior	Contains only components according to BS EN 934-1:2008, Annex A.1
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 MasterPozzolith 523 Safety Data Sheet.
Disposal	Refer to MasterPozzolith 523 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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**MasterPozzolith 523** Technical Data Sheet -  
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