

MasterCast® 718

Highly Water Reducing Additive for Zero Slump Concrete Products

Material Description

MasterCast® 718 is a polymer-based plasticizer developed for zero slump concrete products, which increases demoulding and final strength, and improves production efficiency. Because it reduces the effect of friction between surfaces; MasterCast® 718 provides better compaction of the side surfaces and enables the products to be easily removed from the mold. It helps sharp edges to come out smooth, especially with little vibration.

MasterCast® 718 additive considers four factors for manufacturers of manufactured concrete products:

- Economics
- Performance
- Aesthetics
- Durability

MasterCast® 718 contribution mainly has a three-part effect:

- It disperses the cement particles within the mix and thus improves the cement hydration.
- It increases the mobility of the cement paste and thus improves compaction. This separation and to vomit It takes it under control and thus provides an increase in strength in hardened concrete.
- It provides strength development at an early age, thus allowing blocks to be lifted earlier, resulting in reduced labor costs and increased site efficiency.

Areas of Application

MasterCast® 718 additive is suitable for use in the following applications:

- In parquet and keystone production,
- Sin the production of cemented block stone,
- In the production of colored zero slump concrete,
- It is used in products produced with other zero slump.

Characteristics and Benefits

MasterCast® 718 additive assists in the production of concrete blocks with the following substances:

- The mixture used allows the design to be optimized.
- It increases the demoulding resistance of zero slump concrete products.
- It increases the final strength.
- It increases the efficiency of production because it provides higher production speed.
- It ensures that the edges of the products come out smooth with low vibration.
- It ensures that the side surfaces of the product are well compressed.

Mixing

MasterCast® 718 is supplied ready for use. The admixture should be added to the concrete mix at the same time as the water. MasterCast® 718 should never be added directly to the cement. MasterCast® 718 should not be used in conjunction with other

Technical Properties

Appearance	Opaque to Yellow
Specific gravity (20°C)	1.03 - 1.07 kg/l
pH Value	5 - 7
Chloride Content (%)	≤ 0.10 (by weight)
Alkali Content (%)	≤ 3.0 (by weight)
Corrosion Behaviour	Contains only components according to BS EN 934-1:2008, Annex A.1
Dangerous Substances	Comply with annex AZ.

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admixtures without prior consultation with the MBT Teknik Yapı Kimyasalları San. ve Tic. A.Ş. Technical Services Department.

MasterCast® 718 can be used with all types of **EN 197** Cements. For use with other special cements, contact our MBT Teknik Yapı Kimyasalları San. ve Tic. A.Ş. Technical Services Department.

MasterCast® 718 should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing MasterCast® 718 then they must be dispensed separately. If any complimentary admixtures are required it is important that trials are performed, prior to any supply, to determine the respective dosages of any complimentary admixture, and the suitability, in the fresh and hardened state, of the resultant concrete. In these circumstances we recommend that you consult MBT Teknik Yapı Kimyasalları San. ve Tic. A.Ş. Technical Services Department for further advice.

Dosage

The normally recommended dosage rate of MasterCast 718 is approximately:

By Weight – 0.2 to 0.8 kg per 100 kg of cement (binder) content.

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.

Packaging

MasterCast® 718 additive is supplied in bulk and 1000- kg IBC's.

Shelf Life

12 months if stored according to manufacturer's instructions in unopened container.

Storage

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.

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

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is only responsible for the quality of the product **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is not

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responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.

Contact

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