

MasterCast 740

Plasticizer Engineered for Manufactured Concrete Products

DESCRIPTION

MasterCast 740 has specially been developed for earth-dry concrete. This state-of-the-art plasticizer based on surfactant technology improves the productivity as well as the green and final strength. Due to its tribological effect, MasterCast 740 enhances the closeness of the lateral surfaces and eases the demoulding of the manufactured concrete products. Particular sharp edges with minimal vibration can be achieved. MasterCast considers the four elements essential for MCP Manufactures:

- FIT for Economics
- FIT for Performance
- FIT for Aesthetics
- FIT for Durability

MasterCast 740 primarily has a threefold action:

- 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 also means that segregation and bleeding are controlled thus giving increased strength in the hardened state.
- It increases early strength development thus allowing for earlier lifting of blocks hence reducing labor costs and improving plant efficiency.

FIELDS OF APPLICATION

MasterCast 740 is suitable for use in the following applications:

- Concrete Block Manufacture
- Dry-mix applications
- All zero slump products

FEATURES and BENEFITS

MasterCast 740 aids in the production of concrete blocks by:

- Optimised mix design
- Higher green strength
- Improved final strength
- Enhanced productivity due to higher production speed
- Sharp edges with minimal vibration
- Enhanced closeness of lateral surfaces

DOSAGE

The normally recommended dosage rate of MasterCast 740 is approximately:

- *By Weight* – 0.1 to 0.5 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.

MIXING

MasterCast 740 is supplied ready for use. The admixture should be added to the concrete mix at the same time as the water. MasterCast 740 should never be added directly to the cement. MasterCast 740 should not be used in conjunction with other admixtures without prior consultation with the Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd.Şti Technical Services Department. MasterCast 740 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.

MasterCast 740 should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing MasterCast 740 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 Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd.Şti Technical Services Department for further advice.

PACKAGING

MasterCast 740 is supplied in bulk and 1000-kg IBC's.

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Product Data	
Appearance	Transparent
Specific gravity @ 20°C	0.99-1.1 kg/lt
pH-value	7
Chloride content (%)	≤ 0.10 (by mass)
Alkali (%)	≤ 3.0 (by mass)
Corrosion behaviour	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 MasterCast 740 Safety Data Sheet.
Disposal	Refer to MasterCast 740 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

Master Builders Solutions Yapı Kimyasalları

Sanayi ve Ticaret Ltd. Şti.

Head Office Adress : Barbaros Mah. Begonya Sok.

Nidakule Ataşehir Kuzey C Kapısı No:3E/5 ,34746

Ataşehir, İstanbul, Türkiye

Tel: 0216 217 88 00

Mail: mbs.tr@mbcc-group.com

www.master-builders-solutions.com/tr-tr

MasterCast 740 Technical Data Sheet -Revision

Date: 10/2020