

MasterCast 701

High range water reducing admixture for Manufactured Concrete Products, specially engineered for hollow-core slabs and mixes needing high water reduction.

Material Description

MasterCast 701 is an innovative multi-purpose plasticizer based on polycarboxylic ether polymers, specially developed for earth-dry concrete. The product is also suitable for the production of hollow-core slabs. At the same time, MasterCast 701 accelerates the strength development and reduces the cycle time whilst the appearance is maintained or even improved.

Thanks to its unique principle of action on the cement grain, MasterCast 701 fully exploits the hydration potential of cement resulting in higher early strengths and shorter curing times. MasterCast 701 is a key component to our FIT 4 VALUE concept.

FIT 4 VALUE considers the four elements essential for MCP Manufactures:

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

Here, FIT means meeting every requirement for economics, performance, aesthetics and durability.

Areas of Application

MasterCast 701 is suitable for Manufacturing Concrete Products, especially:

- Block paving mixes needing high water reduction.
- Blocks.
- Hollow-core slabs.

Characteristics and Benefits

MasterCast 701 offers the following benefits for the MCP industry to:

- Optimised mix design.
- Enhanced productivity due to shorter cycle time.
- Higher early strength.

- Optimised curing cycles due to shorter curing times.

Application Procedure

MasterCast 701 is a liquid ready-to-use admixture to be added to the concrete during the mixing process. The best results are obtained when the admixture is added after all the other components are already in the mixer and after the addition of at least 80% of the total water.

The water content is adjusted to obtain the desired consistency.

Dosage

The normally recommended dosage rate for MasterCast 701 is 0.4 to 0.8 litres per 100 kg of cement.

The dosage rates given above are for typical usages, they are not meant as absolute limits, as other dosages may be utilised in special cases according to specific job conditions. If required consult our Technical Services Department for advice. Trial mixes should be carried out to ensure optimum dosage and effect.

Compatibility

MasterCast 701 can be used with all types of EN 197 Cements. For use with other special cements, contact our Technical Services Department.

MasterCast 701 should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing MasterCast 701 they must be dispensed separately.

When 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 our Technical Services Department for further advice.

MasterCast 701 is compatible and recommended for use with:

- MasterFinish MPT 299, cleaning and protection agent.



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- MasterFinish form release agents, to enhance appearance.

MasterCast 701 is not compatible with the MasterRheobuild or MasterGlenium superplasticizers.

Packaging

MasterCast 701 is supplied in 1000-litre IBC's and 15-litre containers.

Contact Details

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Product Data	
Appearance:	Amber yellow liquid
Specific gravity @ 20°C:	1.05 ± 0.05 g/cm ³
pH-value:	7.0 ± 1.0
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 701 Safety Data Sheet
Disposal:	Refer to MasterCast 701 Safety Data Sheet

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Disclaimer

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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 vapour 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 UK Ltd" (the Company) endeavours 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.