

New generation of polycarboxylic ether based plasticizer for Manufactured Concrete Products, specially engineered for hollow-core slabs and mixes needing high water reduction

Description of Product

RheoFIT[®] 701 is an innovative multi-purpose plasticizer based on polycarboxylic ether polymers, specially developed for earth-dry concrete with low cement content. The product is also suitable for the production of hollow-core slabs. At the same time, RheoFIT[®] 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, RheoFIT[®] 701 fully exploits the hydration potential of cement resulting in higher early strengths and shorter curing times.

FIT 4 VALUE:

RheoFIT[®] 701 is a key component to BASF's 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

Technical Data/Typical Properties

Appearance	Amber-yellow liquid
Specific gravity @ 20°C	1.0 – 1.1 g/cm ³
pH-value	6 - 8

Application Procedure

RheoFIT[®] 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 consistence or workability.

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

Fields of Application

RheoFIT[®] 701 is suitable for Manufacturing Concrete Products, especially:

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

Features and Benefits

RheoFIT[®] 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

Dosage rate

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

Other dosages may be used in special cases according to specific job site conditions. In this case please consult our Technical Services Department.

Compatibility

RheoFIT[®] 701 is compatible and recommended for use with:

- RheoFIT[®] 742, colour enhancer
- RheoFIT[®] 743/744, water repellent, to reduce water absorption (e.g. EN 1338, class 2 B)
- Rheofinish[®] 299C, cleaning and protection agent
- Rheofinish[®] 314J and 340M, form release agent, to enhance appearance

RheoFIT[®] 701 is not compatible with the RHEOBUILD[®] or GLENIUM[®] superplasticizers.

Packaging

RheoFIT[®] 701 is available in 25 litre cans, 208 litre drums and 1'000 litre tanks.

Storage

RheoFIT[®] 701 must be stored in a place where the temperature does not drop below 5°C.

If stored in unopened containers according to manufacturer's instructions, the shelf life is 12 months.

Handling and transportation

No special requirements must be observed while the product is used. Protection gloves and glasses are recommended. Do not eat, drink or smoke during the application. RheoFIT[®] 701 is non-flammable, non-toxic or irritant and is not subject to special transport requirements.

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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

"BASF Construction Chemicals (UK) Limited" (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.