

**A new generation of polycarboxylic ether plasticizer for Manufactured Concrete Products, specially engineered for use in extruded hollow-core slabs**

### Description of Product

RheoFIT<sup>®</sup> 703 has specially been developed for earth-dry concrete of hollow-core slabs. This innovative multi-purpose plasticizer based on polycarboxylic ether polymers increases the production speed as well as the tolerance to changes in moisture content.

Thanks to its unique principle of action on the cement grain, RheoFIT<sup>®</sup> 703's tribological effect enables a higher speed of production by decreasing the friction. Also exceed water in the concrete mix is stabilized enhancing the appearance and geometrical parameters.

#### FIT 4 VALUE:

RheoFIT<sup>®</sup> 703 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

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

### Fields of Application

RheoFIT<sup>®</sup> 703 is suitable for Manufacturing Concrete Products, especially:

- Extruded hollow-core slabs

### Features and Benefits

RheoFIT<sup>®</sup> 703 offers the following benefits for the MCP industry to:

- Optimised mix design
- Higher early strength
- Enhanced productivity due to higher production speed and shorter curing period
- Increased tolerance to variation of moisture contents in the mix and consequently, improved geometrical parameters

### Technical Data/Typical Properties

Appearance	Opalescent yellow liquid
Specific gravity @ 20°C	1.3 – 1.4 g/cm <sup>3</sup>
pH-value	4.5 – 6.5

### Application Procedure

RheoFIT<sup>®</sup> 703 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.

### Dosage rate

The normally recommended dosage rate is 0.6 to 1.2 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<sup>®</sup> 703 is compatible and recommended for use with:

- Rheofinish<sup>®</sup> 299C, cleaning and protection agent
- Rheofinish<sup>®</sup> 314J and 340M, form release agent, to enhance appearance

RheoFIT<sup>®</sup> 703 is not compatible with the RHEOBUILD<sup>®</sup> or GLENIUM<sup>®</sup> superplasticizers.

**Packaging**

RheoFIT<sup>®</sup> 703 is available in 25 litre cans, 208 litre drums and 1'000 litre tanks.

**Storage**

RheoFIT<sup>®</sup> 703 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<sup>®</sup> 703 is non-flammable, non-toxic or irritant and is not subject to special transport requirements.

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RheoFIT<sup>®</sup> 703, BASF Construction Chemicals (UK) Limited, Version 2

**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.