

New generation of polycarboxylic ether plasticizer, specially designed for use in Manufactured Concrete Products

Description of Product

RheoFIT[®] 777 is an innovative multi-purpose plasticizer based on polycarboxylic ether polymers, specially developed for use in concrete blocks or in other dry-mix applications.

FIT 4 VALUE:

RheoFIT[®] 777 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.

Application

RheoFIT[®] 777 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.

Technical Data/Typical Properties

Appearance	Dark Brown Liquid
Specific gravity @ 20°C	1.18 - 1.19 g/cm ³
Chloride Ion content	Nil
Equivalent Na ² O	0.4%
Sulphate content as SO ³	0.07%

Application Procedure

Dosage

The recommended dosage for RheoFIT[®] 777 is 0.4% by weight of cement.

- It increases early strength development thus allowing for earlier lifting of blocks hence reducing labour costs and improving plant efficiency.

Features and Benefits

RheoFIT[®] 777 aids in the production of concrete blocks by:

- Improving cohesion which allows the use of a wider range of aggregates without loss of quality.
- Lubricating the concrete mix to improve compaction.
- Giving greater cement savings (10-15%) whilst maintaining required compressive strength.
- Improving the finished appearance of the product even with poor shaped aggregates.
- Preventing premature drying of the concrete blocks in warm or windy conditions.

Fields of Applications

RheoFIT[®] 777 is suitable for use in the following applications:

- Concrete Block Manufacture
- Dry-mix applications

Over Dosage

Over-dosing using RheoFIT[®] 777 can cause the following effects:

- Considerable increases in workability.
- Increased air entrainment.
- Retardation of initial and final set.



The Chemical Company

RheoFIT[®] 777

(Formerly Conplas B6)

If over-dosing does occur please consult the BASF IBC Admixture Systems Technical Department for recommendations.

The manufacturer would advise that trial mixes should be undertaken, using job materials, in simulated job conditions to determine suitable dosage rates and performance.

Application

RheoFIT[®] 777 is supplied ready for use. The admixture should be added to the concrete mix at the same time as the water. RheoFIT[®] 777 should never be added directly to the cement. RheoFIT[®] 777 should not be used in conjunction with other admixtures without prior consultation with the BASF IBC Admixture Systems Technical Department.

Packaging

RheoFIT[®] 777 admixture is supplied in 25 Litre, 210 Litre, 1000 Litre containers and Bulk.

Storage

Store away from direct sunlight in ambient temperatures and in dry conditions.

Watchpoints

If RheoFIT[®] 777 admixture has frozen, thaw at temperatures above 2°C and completely reconstitute by mild agitation. Do not use pressurised air for agitation.

Shelf life

12 months in manufacturers sealed drums.

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RheoFIT[®] 777, BASF IBC Admixture Systems Limited, Version 1

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 IBC Admixture Systems 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.