

Powdered admixture system for Watertight Concrete



CE Approved – Certificate No. 0086-CPD-469071
EN934 part 2 table 9

Description of Product

RheoFIT[®] 799 is a powdered “One Bag” version of BASF’s Watertight System. RheoFIT[®] 799 is a high performance integral waterproofing system for wet cast concrete incorporating combined waterproofing and superplasticising components. On the completion of correct placing, compaction and curing the system provides a waterproof structure with minimum effect on the original appearance and texture.

FIT 4 VALUE:

RheoFIT[®] 799 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

- Concrete subjected to water pressure
- Below ground construction
- Retaining walls
- Water retaining structures
- Concrete walls and slabs
- Basements, walls, slabs & columns designed in accordance with BS 8007:1987, BS 8102:1990 (Table 1 for Grade 4), BS 8110:Part 1:1997
- Precast wet or dry concrete

Features and Benefits

- Reduced water permeability
- Reduced water penetration
- Reduced water absorption
- Reduced air permeability

Technical Data/Typical Properties

Appearance	Light yellow powder
Uncompacted Bulk Density @ 20°C	550 to 590 kg/m ³
Chloride content %	Less than or equal to 0.1%
Alkali content (%)	Less than or equal to 13.5%

Application Procedure

RheoFIT[®] 799 should be added to the concrete at the mixing stage. It should not be added to dry components as it will adsorb and so reduce the effect on the subsequent properties. Add the RheoFIT[®] 799 after at least 70% of the mixing water has been added. The sachets are designed to be soluble in water and do not require any breaking or tearing of the sachet prior to being added to the concrete mix.

RheoFIT[®] 799 can also be added to the concrete on arrival at the job site. To ensure the correct final consistence levels are achieved we recommend that a consistence level of 50 to 70mm be obtained prior to the incorporation of the RheoFIT[®] 799 - this will then provide a concrete with a target consistence level of 130 to 150mm.

We strongly recommend that these figures be verified and modified accordingly, depending on the results, by performing trial mixes on the intended materials prior to the actual supply to site. If RheoFIT[®] 799 is to be added to the concrete mixer on site, the mixer must be in good working order and a minimum mixing time of 5 minutes be applied or until such time as the concrete is homogenous. To achieve the optimum performance from the concrete, RheoFIT[®] 799 may also be added to concrete already incorporating products from our Pozzolith[®] or Glenium[®] ranges.

Irrespective of the specified strength grade, the concrete specification should include a minimum cement content of 350Kg/m³ and the water/cement ratio should not exceed 0.45. The cement should comply with EN 197-1.

Dosage rate

The dosage rate of RheoFIT[®] 799 is 1 x 875g bag per 0.5m³.

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

Maintenance of Treated Surfaces

RheoFIT[®] 799 will significantly reduce the deterioration and staining of treated surfaces.

Cleaning

Clean all equipment with water immediately after use.

Packaging

RheoFIT[®] 799 is available in 875g water soluble sachets, packed 16 to a box and 500kg bags.

Storage

RheoFIT[®] 799 must be stored indoors in a dry environment. The presence of dampness and/or high humidity may cause premature breakdown of the soluble sachets.

When removing individual sachets from the outer packaging, care should be given to prevent moisture being introduced to the remaining sachets.

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. For specific storage advice, consult BASF Construction Chemicals Technical Services Department.

Shelf Life

If stored in unopened containers according to manufacturer's instructions, the shelf life is 18 months.

Watchpoints

- RheoFIT[®] 799 will not directly reduce the slip resistance of the substrate, but as it significantly reduces the porosity of the treated surface, adequate drainage is necessary to avoid water ponding in horizontal areas.
- Concrete containing RheoFIT[®] 799 cannot be over coated with any subsequent treatment without abrasive cleaning.

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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 plc, Construction Chemicals " (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.