

Admixture system for Watertight Concrete

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EN934 part 2 table 9

Description of Product

RheoFIT[®] 791 is a component of BASF's Watertight System. RheoFIT[®] 791 is a high performance integral waterproofer for wet or dry cast concrete used in conjunction with Glenium High Range Water Reducing admixtures. On curing the system provides a waterproof structure with minimum effect on the original appearance and texture.

Fields of Application

- Concrete subjected to water pressure
- Below ground construction
- Retaining walls
- Water retaining structures
- Concrete walls and slabs
- 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	White liquid
Specific gravity @ 20°C	0.98 ± 0.02 g/cm ³
pH-value	9.0 ± 1
Alkali content (%)	Less than or equal to 0.10
Chloride content (%)	Less than or equal to 0.10

Application Procedure

RheoFIT[®] 791 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[®] 791 after the water has begun. Do NOT mix the RheoFIT[®] 791 directly with the Glenium but add them separately to the wetted materials in the mixer.

Application

Avoid contact of RheoFIT[®] 791 product with animals, plants or water features. The product is of low toxicity but can adversely affect the respiration of live plants and aquatic life including fish.

Integral Use

Add to the mix with the mixing water. Some water reduction may be experienced. Setting times and strength development are unaffected. All cast products should be protected from rain for 24 - 36 hours after casting to allow the RheoFIT[®] 791 to develop full waterproofing.

Products made incorporating RheoFIT[®] 791 can be cured at elevated temperatures and/or humidity's, (not steam). Do not cure products in water.

Dosage rate

Dosage rates will depend on the type of product, mix and degree of waterproofing required.

The normally recommended dosage rate is:

By Volume - 0.51 to 2.04 litres per 100Kg of cement (binder).

By Mass - 0.50 to 2.00 kg per 100 Kg of cement (binder).

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

Maintenance of Treated Surfaces

RheoFIT[®] 791 will significantly reduce the deterioration and staining of treated surfaces.

Cleaning

Clean all equipment with water immediately after use.

Packaging

RheoFIT[®] 791 is available in 1000-litre IBC's, 205-litre drums and 25-litre containers.

Storage

RheoFIT[®] 791 must be stored indoors in a place where temperature does not drop below +5°C. If product has frozen, thaw at +3°C and agitate until completely reconstituted. 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

6 months if stored in accordance with manufacturer's instructions in unopened containers.

Watchpoints

- Agitate prior to use in order to avoid possible separation.
- Avoid contact of the liquid product with live plants or aquatic life. The cured product is non-toxic.
- Avoid contact with glass or glazed surfaces, which may be dulled.
- Only use on new or fresh surfaces - this product will highlight and make permanent grease marks, stains, algal growth or efflorescence.
- RheoFIT[®] 791 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.
- RheoFIT[®] 791 treated surfaces 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.