

BASF Watertight System for Watertight Concrete

Description of System

RheoFIT® 791 and Glenium High Range Water Reducing admixtures – here after referred to as BASF “Watertight System”

BASF “Watertight System” is a combination of RheoFIT® 791 a high performance integral waterproofer for wet or dry cast concrete with a Glenium High Range Water Reducing admixture. 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
- Basements; walls; slabs and columns designed in accordance with BS 8007 : 1987, BS 8102 : 1990 (Table 1 for Grade 4), BS 8110 : Part 1 : 1997.

Features and Benefits

- Reduced water permeability
- Reduced water penetration under pressure
- Reduced water absorption
- Reduced air permeability

Application Procedure

BASF “Watertight System” 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. Do NOT mix the RheoFIT® 791 directly with the Glenium but add them separately to the wetted materials in the mixer.

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.

Dosage rate

The normally recommended dosage rate is 1.0 litre per 100 kg of cement for the RheoFIT® 791 and typically 0.5 litres per 100 kg of cement of the Glenium HRWR. The dosage of Glenium High

Range Water Reducing admixture may vary according to the “material package, consistence required and method of construction adopted”.

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

BASF “Watertight System” will significantly reduce the deterioration and staining of the finished concrete surfaces.

Typical Performance Enhancement

Test	Performance vs. Control
Compressive Strength 28 days	> + 5%
ISAT @ 60 minutes	- 40%
Water Absorption (ASTM)	- 49%
Water Absorption BS 1881-122	- 40%
Water Penetration BS EN 12390-8	- 42%
Air Permeability (Dundee University Method)	- 33%
Cement Content	Equal
Water / Cement Ratio	- 0.06

Cleaning

Clean all equipment with water immediately after use.

Storage

BASF “Watertight System” must be stored indoors in a place where temperature does not drop below +5°C. For specific storage advice please consult BASF Construction Chemicals (UK) Technical Services Department.

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Shelf Life

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

Watchpoints

- Agitate RheoFIT® 791 prior to use in order to avoid possible separation.
- Avoid contact of the RheoFIT® 791 liquid product with live plants or aquatic life. The cured product is non-toxic.
- Avoid contact of the RheoFIT® 791 with glass or glazed surfaces, which may be dulled.

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BASF "Watertight System", BASF Construction Chemicals (UK) 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 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.