



The Chemical Company

RHEOFIT™ 1100

Accelerating and high early strength admixture

DESCRIPTION

RHEOFIT 1100 is a ready-to-use liquid admixture formulated to accelerate the setting time and strength gain of non-plastic concrete.

RECOMMENDED FOR

RHEOFIT 1100 is recommended for non-plastic concrete requiring faster setting times and strength (compressive and flexural) gain in any temperature conditions.

Note: **RHEOFIT 1100** does contain added calcium chloride. Should restrictions on chloride contents apply, contact your local BASF Construction Chemicals Technical Sales Representative to determine the levels of chlorides present for particular dose rates of **RHEOFIT 1100**.

FEATURES AND BENEFITS

Concrete with **RHEOFIT 1100** admixture has a significantly faster setting time than plain concrete. Increasing the dosage rate increases set acceleration.

Both the compressive and the flexural strengths of concrete with **RHEOFIT 1100** develop more rapidly than with plain concrete. **RHEOFIT 1100** can be used to achieve 28 day strength results in as little as 3 days.

Benefits to concrete construction and to the manufacture of non-plastic concrete products because of this earlier setting and strength gain include:

- fewer breakages
- faster production cycles

APPLICATION

RHEOFIT 1100 can be used with air-entraining admixture and other BASF admixtures to achieve cost-effective customised concrete performance. However, admixtures should be added separately to initial batching water to ensure complete distribution throughout the mix. **RHEOFIT 1100** should not be used in conjunction with other admixtures supplied by other manufacturers unless specific test information is available.

DOSAGE

RHEOFIT 1100 is used at dose rates up to 4 litres per 100kg of cementitious binder. The dosage rate is dependent on the ambient concrete temperatures, cement chemistry and the amount of acceleration required.

The degree of set-acceleration increases with increasing dose rates, allowing the concrete producer to control the setting rate of products.

Since setting time and concrete strength are also influenced by the chemical and physical composition of the basic ingredients of the concrete, trial mixes should be made with materials approximating production conditions to determine the dosage required for a given degree of acceleration and strength gain.

PACKAGING

RHEOFIT 1100 is available in sealed 205 litre drums and bulk delivery.

SHELF LIFE

RHEOFIT 1100 can be stored in either fibreglass or mild steel tanks. Steel tanks may be lined with epoxide systems, urethane or vinyl. Aluminium is subject to corrosion and is not recommended.

Bronze or stainless steel valves are recommended, however, mild steel is satisfactory under air free conditions. Yellow brass is unsuitable.

Note: Corrosion of unlined steel tanks will occur if the tanks are not kept full of **RHEOFIT 1100**.

PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF **Material Safety Data Sheet (MSDS)** from our office or our website.



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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by **BASF** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF**, are responsible for carrying out procedures appropriate to a specific application.

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