

RHEOPLUS™ 44 SURETEC

New generation, normal to mid range water reducer with superior slump retention, pumping and finishing

DESCRIPTION

RHEOPLUS 44 SURETEC is a multi component, non-chloride, normal to mid range water reducing admixture designed to improve the performance of concrete both in the plastic and hardened states. **RHEOPLUS 44 SURETEC** is a versatile admixture able to produce and maintain mid range slumps for extended periods without retardation. Its formulation contains materials able to improve the concrete's workability and finishability.

RECOMMENDED FOR

- all types of concrete where a non-chloride water reducing admixture is required, especially in the mid range slump band (100-150mm)
- improving the performance of pumped concrete, shotcrete and conventionally placed concrete
- improving the performance of plain, reinforced, precast, light weight or standard weight concrete
- use in white or coloured concrete
- use in architectural concrete, especially where off-form and/or surface finish is critical
- use in concrete containing harsh aggregates and/or manufactured sands

FEATURES AND BENEFITS

RHEOPLUS 44 SURETEC mid range water reducer aids in the production of concrete with these qualities.

In the plastic state:

- **normal setting characteristics throughout the recommended dose range**
- **reduced segregation, particularly in lean mixes and mid slump concrete**
- **superior slump retention**
- **improved workability**
- **improved pumpability**
- **reduced water content for a given workability**
- **enhanced finishability, especially for concrete with manufactured or harsh aggregates**

In the hardened concrete:

- **no added chlorides, conforms to the most stringent chloride ion limits including AS3600 concrete structures code, will not initiate or promote the corrosion of reinforcing steel**
- **increased strength – compressive, flexural and bond (concrete to steel)**
- **superior finished appearance**
- **increased density and durability**
- **reduced permeability – improved watertightness**
- **reduced cracking**
- **low shrinkage and creep**

QUANTITY TO USE

RHEOPLUS 44 SURETEC is a versatile admixture with a dose rate of 400 to 2000 mls per 100kg of cementitious material. An increase in dose rate results in an increase in water reduction.

The improved slump retention, pumpability and finishability aspects of **RHEOPLUS 44 SURETEC** are enhanced with increasing dose rate. The correct dosage rate in each instance should be determined by correctly conducted trials under the supervision of a BASF Construction Chemicals technical representative.

DISPENSING

RHEOPLUS 44 SURETEC can be added at the batch plant or on site. When adding at batch plant, delay addition until at least 75% of the water has been added. Do not add onto dry aggregates or cement. When introduced on site, mix for a further 4 minutes after addition.

PROPERTIES

Form	Liquid
Colour	Opaque, pale yellow to light brown
Specific Gravity	1.04 – 1.08
pH	6.0 – 8.0
NVM	28 – 33%

COMPATABILITY

RHEOPLUS 44 SURETEC is not compatible with admixtures containing sulfonated naphthalene formaldehyde condensates (BNS).

RHEOPLUS 44 SURETEC can be used with other BASF Construction Chemicals admixtures to achieve cost effective customised performance. However, those admixtures should be dispensed separately and added separately to ensure complete distribution throughout the mix. **RHEOPLUS 44 SURETEC** should not be used in conjunction with other admixtures unless specific test information is available.

PACKAGING

RHEOPLUS 44 SURETEC is supplied in 20 litre pails, 205 litre drums, 1000 litre pallecons and bulk delivery.

STORAGE

RHEOPLUS 44 SURETEC can be stored for 12 months if stored at a temperature above 0°C and in tightly sealed original containers.



The Chemical Company

RHEOPLUS™ 44 SURETEC

PRECAUTIONS

If RHEOPLUS 44 SURETEC has frozen, thaw at 2°C or above and completely reconstitute by mild mechanical agitation. Do not use pressurised air for agitation.

Health: RHEOPLUS 44 SURETEC does not contain any hazardous substances requiring labeling. It is safe for use with standard precautions followed in the construction industry, such as use of hand gloves, safety goggles, etc. For detailed Health, Safety and Environmental Recommendations, please consult and follow all instructions in the product Material Safety Data Sheet.

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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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