

POLYHEED 939N SURETEC

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

DESCRIPTION

POLYHEED 939N 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. **POLYHEED 939N 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 architectural concrete, especially where off-form and/or surface finish is critical

FEATURES AND BENEFITS

POLYHEED 939N 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
- 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 water tightness
- reduced cracking
- reduced shrinkage and creep

QUANTITY TO USE

POLYHEED 939N SURETEC is a versatile admixture with a dose rate of 300 to 1200mls 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 **POLYHEED 939N SURETEC** are enhanced with increasing dose rate. The correct dosage rate in each instance should be determined by controlled laboratory and/or field trials conducted under the supervision of a BASF Technical Sales Representative.

DISPENSING

POLYHEED 939N SURETEC can be added at the batch plant or on site. When adding at batch plant, **POLYHEED 939N SURETEC** should be added with the initial batch water, to ensure maximum dispersion throughout the mix. Do not add onto dry aggregates or cement. When introduced on site, mix for a further 5 minutes after addition.

PROPERTIES

Form	Liquid
Colour	Dark brown liquid
Specific Gravity	1.053 – 1.073
pH	5.0 – 7.0
NVM	24.3 – 26.3 % w/w

COMPATIBILITY

POLYHEED 939N SURETEC is not compatible with admixtures containing sulphonated naphthalene formaldehyde condensates (BNS).

POLYHEED 939N SURETEC can be used with other BASF admixtures to achieve cost effective customized performance. However, any combination must be tested in controlled laboratory or field trials to ensure the combination will meet the desired performance parameters before proceeding to actual project mixes. Further, those admixtures should be dispensed separately and added separately to ensure complete distribution throughout the mix. Care should be taken when used in conjunction with an AEA as there may be a synergistic effect increasing the air content of the final mix above that desired.

POLYHEED 939N SURETEC should not be used in conjunction with other admixtures unless specific test information is available.



The Chemical Company

POLYHEED 939N SURETEC

PACKAGING

POLYHEED 939N SURETEC is supplied in 20 litre pails, 205 litre drums, 1000 litre pallecons and bulk delivery.

STORAGE

POLYHEED 939N SURETEC can be stored for 12 months if stored at a temperature above 0°C and in tightly sealed original containers.

PRECAUTIONS

If POLYHEED 939N SURETEC has frozen, thaw at 2°C or above and completely reconstitute by mild mechanical agitation. Do not use pressurised air for agitation.

Care should be taken when used in conjunction with an AEA as there may be a synergistic effect increasing the air content of the final mix above that desired. Always conduct trial mixes and test air content before committing to supply.

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.

APheed936N/2/0711

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.

BASF Australia Ltd
A.B.N. 62008437867
Head Office: 11 Stanton Road Seven Hills, NSW 2147
Ph. (02) 8811 4200

Newcastle (02) 4961 3819
Canberra (02) 6280 6010
Brisbane (07) 3633 9900
Townsville (07) 4774 7344
Melbourne (03) 9549 0300

Adelaide (08) 8139 7500
Perth (08) 9366 2600
Darwin (08) 8984 3269
Kalgoorlie 0417 772 355

BASF New Zealand Ltd
BASF WEB SITES

Head Office: 45 William Pickering Drive, Albany, Auckland Ph: (09) 414 7233
www.basf-cc.com.au www.basf-cc.co.nz www.meyco.basf.com