

POLYHEED[®] 997

Mid range water reducer with superior pumping and finishing

DESCRIPTION

POLYHEED 997 is a multi component, non-chloride, mid range water reducing admixture designed to improve the performance of concrete both in the plastic and hardened states. **POLYHEED 997** is a versatile admixture able to produce mid range slumps without excessive retardation. Its formulation contains materials able to improve the concrete's workability and finishability. **POLYHEED 997** meets and exceeds the requirements of AS1478 Type MWR.

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

POLYHEED 997 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**
- **improved workability**
- **improved pumpability**
- **reduced water content for a given workability**
- **enhanced finishability, especially for concrete with manufactured or harsh aggregates**
- **improved slump retention across the mid slump range**

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**
- **compatibility with air entraining agents**

QUANTITY TO USE

POLYHEED 997 is a versatile admixture with a dose rate of 200 to 1000 mls per 100kg of cementitious material. An increase in dose rate results in an increase in water reduction and slight retardation. However, the retardation experienced is not as severe as would be experienced with conventional water reducing admixtures.

The improved pumpability and finishability aspects of **POLYHEED 997** 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 Technical Sales Representative.

COMPATIBILITY

POLYHEED 997 can be used with air entraining admixtures and other BASF admixtures to achieve cost effective customised performance. However, all admixtures should be dispensed separately and added separately to initial batching water to ensure complete distribution throughout the mix. **POLYHEED 997** should not be used in conjunction with other admixtures unless specific test information is available.

PACKAGING

POLYHEED 997 is supplied in 205 litre sealed drums and bulk delivery.

PRECAUTIONS

If **POLYHEED 997** has frozen, thaw at 2°C or above and completely reconstitute by mild mechanical agitation. Do not use pressurised air for agitation.

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.



The Chemical Company

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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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