

POLYHEED 1200

New generation, normal to mid range water reducer with enhanced finishability for concretes with manufactured or harsh aggregates

DESCRIPTION

Polyheed 1200 is a multi component, non-chloride, normal to mid range water reducing admixture designed to improve the performance of concrete containing manufactured or harsh aggregates, both in the plastic and hardened states. **Polyheed 1200** is a versatile admixture able to produce and maintain mid range slumps 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)
- enhancing screeding and trowelling of concrete mixes containing manufactured sands
- improving the performance of pumped concrete, and conventionally placed concrete containing harsh or manufactured materials.
- 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 when using manufactured sand mixes.

FEATURES AND BENEFITS

Polyheed 1200 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**
- **enhanced slump retention**
- **improved workability**
- **improved pumpability**
- **reduced water content for a given workability**
- **superior 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**

CAUTION

POLYHEED 1200 HAS A SYNERGISTIC EFFECT WITH AIR ENTRAINING AGENTS (AEA) WHICH MAY PRODUCE UP TO FOUR TIMES THE VOLUME OF ENTRAINED AIR.

QUANTITY TO USE

Polyheed 1200 is a versatile admixture with a dose rate of 300 - 1200 mls per 100kg of cementitious material. An increase in dose rate results in an increase in water reduction.

The improved finishability, pumpability slump retention aspects of **Polyheed 1200** 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

Polyheed 1200 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 | Dark brown |
| Specific Gravity | 1.056 – 1.096 |
| pH | 7.8 – 9.8 |
| NVM | 32.6 – 36.6 |

COMPATABILITY

Polyheed 1200 is not compatible with admixtures containing sulfonated naphthalene formaldehyde condensates (BNS).

Polyheed 1200 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. **Polyheed 1200** should not be used in conjunction with other admixtures unless specific test information is available.

PACKAGING

Polyheed 1200 is supplied in 20 litre pails, 205 litre drums, 1000 litre pallecons and bulk delivery.

STORAGE

Polyheed 1200 can be stored for 12 months if stored at a temperature above 0°C and in tightly sealed original containers.



The Chemical Company

POLYHEED 1200

PRECAUTIONS

If **Polyheed 1200** has frozen, thaw at 2°C or above and completely reconstitute by mild mechanical agitation. Do not use pressurised air for agitation.

Health: **Polyheed 1200** 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.

All BASF Construction Chemicals Australia & New Zealand data sheets are updated on a regular basis, it is the user's responsibility to obtain the most recent issue **ARplus44SURETEC/2/1107**

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF Construction Chemicals** 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 Construction Chemicals** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF Construction Chemicals**, are responsible for carrying out procedures appropriate to a specific application.

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