

# POLYHEED<sup>®</sup> 916HE

Mid range water reducer with superior pumping and finishing

## DESCRIPTION

**POLYHEED 916HE** 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 916HE** is a versatile admixture able to produce mid range slumps without retardation. Its formulation contains materials able to improve the concrete's workability and finishability. **POLYHEED 916HE** meets and exceeds the requirements of AS1478.1-2000 Type MWR and Ac.

## RECOMMENDED FOR

- all types of concrete where a non-chloride, mid range water reducing and accelerating 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 916HE** mid range water reducer aids in the production of concrete with these qualities.

In the plastic state:

- **accelerated 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**

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**

## QUANTITY TO USE

**POLYHEED 916HE** is a versatile admixture with a dose rate of 300 to 1200 mls per 100kg of cementitious material. An increase in dose rate results in an increase in water reduction and acceleration.

The improved pumpability and finishability aspects of **POLYHEED 916HE** 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.

## DISPENSING

**POLYHEED 916HE** can be added at the batch plant or on site. When adding at batch plant, delay addition until cement has been thoroughly wetted out and at least 75% of water added. When introduced on site, mix for a further 4 minutes after addition.

## COMPATABILITY

**POLYHEED 916HE** is not compatible with admixtures containing sulfonated naphthalene formaldehyde condensates (BNS).

**POLYHEED 916HE** can be used with other BASF 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 916HE** should not be used in conjunction with other admixtures unless specific test information is available.

## CAUTION

**POLYHEED 916HE HAS A SYNERGISTIC EFFECT WITH AIR ENTRAINING AGENTS (AEA) WHICH MAY PRODUCE UP TO FOUR TIMES THE VOLUME OF ENTRAINED AIR FOR A GIVEN DOSE OF AEA.**

## PACKAGING

**POLYHEED 916HE** is supplied in 20 litre pails, 205 litre drums, 1000 litre pallecons and bulk delivery.

## PRECAUTIONS

If **POLYHEED 916HE** 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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