



The Chemical Company

POLYHEED[®] 861HE

Non-chloride water reducing set accelerating admixture

DESCRIPTION

POLYHEED 861HE is a ready to use liquid admixture. It is primarily formulated to provide water reduction and acceleration to the setting time of concrete under cold winter conditions. It provides high early strength in special application concrete, while water reduction and workability retention of the fresh concrete are improved compared to previous technologies. It does not contain added chloride and conforms to chloride ion limits required by concrete industry standards.

POLYHEED 861HE complies with ASTM C-494 for Types C and E admixtures.

RECOMMENDED FOR

POLYHEED 861HE is recommended for any concrete that requires short setting time characteristics and early strength, superior workability, pumpability and finishability. Typical application fields are housing, bridges, concrete highway as well as manufactured concrete products. Particularly suitable when smooth surface of the concrete is required. It is also applicable in concrete subject to chloride ion constraints such as in coastal environments.

FEATURES AND BENEFITS

- **Early strength**
Short setting time even at low temperatures. Early strength development
- **Superior pumpability**
Minimizes choking of pumps and lines
- **Superior cohesion**
Reduces segregation particularly in lean mixes and high slump concrete
- **Consistent performance**
Excellent concrete quality due to superior rheological properties
- **Superior finishing**
Better surface appearance
- **Cement saving**
Mix design can be adjusted according to the performance of **Polyheed 861HE**
- **Cement compatibility**
Compatible with a wide range of cements, fly ashes and slags without loss of performance.

QUANTITY TO USE

POLYHEED 861HE admixture is normally used at a dose rate of 400mls per 100kg of cementitious material depending on the composition of the basic ingredients of the concrete and ambient conditions. **POLYHEED 861HE** can be used at 600mls per 100kg of cementitious material resulting in increased water reduction and faster setting rates especially when temperatures are below 10°C.

POLYHEED 861HE increases the workability of concrete. The duration of workability retention depends on the ambient temperature, types of cement, aggregates used, dosage rate and method of transport.

COMPATABILITY

POLYHEED 861HE is not compatible with admixtures of RHEOBUILD[®] series. Before mixing with other admixtures, always contact your BASF Technical Sales Representative.

POLYHEED 861HE can be used with air entraining admixtures and other BASF admixtures to achieve cost effective customized performance. However, all admixtures should be dispensed separately to the initial batching water to ensure complete distribution throughout the mix. **POLYHEED 861HE** should not be used in conjunction with other admixtures supplied by other manufacturers unless specific test information is available.

DISPENSING

POLYHEED 861HE can be added into the mixing water. Alternatively, it is possible to mix the concrete using approximately 80-85% of the total mixing water to yield a stiff and homogenous mix. Add **POLYHEED 861HE** to the mixture at the specified dosage. Then, while continuing to mix, add the remaining water until the specified workability is obtained.

Adding **POLYHEED 861HE** to a dry concrete mix is not recommended. A separate dispenser and feed line must be used.

SHELF LIFE

POLYHEED 861HE can be stored for 12 months if stored at temperatures above 0° and below 40°, in tightly sealed original drums. If found to be frozen, thaw it and reconstitute by stirring.

PACKAGING

POLYHEED 861HE is available in 20 litre cubes, 205 litre drums, 1000 litre pallecons and bulk.



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PRECAUTIONS

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.

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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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