

POLYHEED[®] 1709

Mid range water reducing admixture

DESCRIPTION

POLYHEED 1709 is a ready-to-use, mid range water-reducing agent designed to produce high slump concrete. This is a ready to use chloride free liquid admixture and formulated to meet ASTM C494 and AS1478 requirements for Water-Reducing Admixtures.

Compatibility

POLYHEED 1709 is compatible with both water reducers and air entraining agents approved under ASTM specifications but it should be dispensed separately into the concrete mix.

Rate of hardening

Setting time is influenced by the chemical and physical composition of the basic ingredients of the concrete, temperature of the concrete and climatic condition. Trial mixes should be made with job materials to determine the optimum dosage required for a specified setting time and a given strength requirement.

FEATURES AND BENEFITS

POLYHEED 1709 improves the properties of fresh and hardened concrete, providing :

- “superplasticising” effect for high slump retention
- dramatic reduction in water requirement at equal slump
- improved workability at equal water content compared to a non-treated mix
- reduced permeability
- increased durability
- increased compressive, flexural and bond strengths of concrete to steel
- increased strength at early ages
- low shrinkage

RECOMMENDED FOR

- precast concrete
- all types of concrete mixes in which high early strength or high strength and very high flowability are essential
- ready-mixed concrete
- pumped concrete
- hot weather concreting
- used with all cements and air-entraining admixtures approved under ASTM and AASHTO and CRD specifications

APPLICATION

Use **POLYHEED 1709** as supplied after thorough stirring, without any dilution.

Dispensing

The addition of **POLYHEED 1709** to a dry mix is not recommended.

POLYHEED 1709 can be dosed either at the batching plant or at the placing site.

At the batching plant, introduce **POLYHEED 1709** at the specified dosage directly into the mixer through a dispenser along with mixing water, when the concrete is thoroughly wetted (i.e. after adding at least 75% of the mixing water) and mix for at least 3 minutes.

If added at the placing site, mix for at least 3 minutes after the addition.

DOSAGE

POLYHEED 1709 is normally used at a rate of 0.5 – 2.0 litres per 100 kg of cement. Other dosages may also be used depending on the mix design of the concrete and ambient conditions. The actual dosage depends on the degree of water reduction or flow required.

PACKAGING

POLYHEED 1709 is supplied in 205 litre sealed drums and bulk delivery.

SHELF LIFE

POLYHEED 1709 can be stored for up to 12 months if stored as recommended in unopened original packing and if stored at temperatures above 0°C in tightly sealed original drums. If found to be frozen, thaw it and reconstitute by stirring.

PRECAUTIONS

Health : **POLYHEED 1709** does not contain any hazardous substances requiring labelling.

It is safe for use with standard precautions followed in the construction industry, such as use of hand gloves, safety goggles, etc.

For additional information on **POLYHEED 1709** and its use in developing a concrete mix with special performance characteristics, contact your local BASF Construction Chemicals Sales representatives.

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Head Office / Factory
Jl. Jababeka V Blok I-1
Cikarang Industrial Estate
Bekasi 17530
T +62 21 8934339
F +62 21 8934342

Representative Office
Surabaya
Jl. Dukuh Kupang I No.71-73
Surabaya 60225
T +62 31 5662210; 5662365
5662382; 5682027; 5681972
F +62 31 5672161

Medan
Taman Setia Budi Indah I
Jl. Cycas II/6 Blok AA No.21
Medan 20131
T +62 61 8212145
F +62 61 8212447





The Chemical Company

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STATEMENT OF RESPONSIBILITY

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