

POLYHEED[®] 1701

High range water-reducing superplasticising admixture

DESCRIPTION

POLYHEED 1701 is a superplasticising, high range, water reducing admixture formulated to produce rheoplastic concrete.

Rheoplastic concrete is fluid concrete with a slump value of at least 180 ± 20 mm, easily flowing but at the same time free from segregation. The slump retention characteristics of rheoplastic concrete permit the addition of **POLYHEED 1701** at the batch plant.

This ready to use chloride free liquid admixture meets ASTM C494 requirements for Type A and F Admixtures, high range water reducing admixture.

RECOMMENDED FOR

- all types of premixed concrete where high water reduction of flowing properties are required.
- reinforced and prestressed concrete beams.
- foundation rafts
- storage tanks
- purification plants
- diaphragm walls.
- jetties, wharves highly reinforced structures.
- bank vaults
- silos
- towers and chimneys
- tunnel linings
- irrigation canals
- weirs and tunnels in hydro-electric structures.

FEATURES & BENEFITS

POLYHEED 1701 considerably improves the properties of fresh and hardened concrete.

- high reliability
- high early and ultimate strengths.
- impermeability
- durability
- dimensional stability
- high elastic modulus
- low shrinkage and creep

DOSAGE

POLYHEED 1701 is normally dosed at 0.5 – 2.0 Lt per 100 kg of cement. Other dosages may be used depending on the mix design of the concrete and ambient conditions. The actual dose depends on the degree of water reduction and flow/slump requirement.

DISPENSING

POLYHEED 1701 can be added at the batch plant or on site. When adding at batch plant, delay addition until cement has been thoroughly wetted and at least 80% of water added. When introduced on site, mix for further 3 minutes after addition.

COMPATIBILITY

POLYHEED 1701 is compatible with both water reducers and air entraining agents approved under SAA and ASTM specifications. When used in concrete it should be dispensed separately into the concrete mix. Should only be used in conjunction with water reducing admixture after specific test information is available at the dose rates proposed. Otherwise extended retardation could result.

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 conditions. Trial mixed should be made with job material to determine the optimum dosage required for a specific setting time and a given strength requirements.

PACKAGING

POLYHEED 1701 is supplied in 205 litre sealed drums and bulk delivery.

For additional information on **POLYHEED 1701** and its use in developing a concrete mix with special performance characteristics, contact your **BASF Construction Chemicals** Sales field representative.

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The Chemical Company

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STATEMENT OF RESPONSIBILITY

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NOTE

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