

POLYHEED[®] 1721

Mid range water-reducing admixture

DESCRIPTION

POLYHEED 1721 is a chloride free, mid range water reducing admixture formulated to produce rheoplastic concrete.

Rheoplastic concrete is fluid concrete with a slump value of at least 200 mm, easily flowing but at the same time free from segregation, and having the same water / cement ratio as that of a non-slump concrete (25 mm) without additive. The slump retention characteristics of rheoplastic concrete allow the addition of **POLYHEED 1721** at the batching plant.

POLYHEED 1721 meets ASTM C494 Type A and G Admixtures.

Workability

POLYHEED 1721 can maintain the workability of fresh concrete for 1-2 hours at 20°C. The precise workability duration depends on temperature, types of cement and aggregates, transport and dosages of admixture. Higher dosage provides longer duration of workability of fresh concrete.

Compatibility

POLYHEED 1721 is compatible with both water reducers and air entraining agents approved under ASTM specifications. When used in concrete, it should be dispensed separately into the concrete mix. Should it be used in conjunction with water reducing admixture, specific test information using proposed dose rates are required. Otherwise, extended retardation could result.

FIELDS OF APPLICATION

- All types of premixed concrete where water reduction or flowing properties are required
- Reinforced and prestressed concrete beams
- Foundation rafts
- Storage tanks
- Purification plants
- Underwater structures
- Diaphragm walls
- Jetties, wharves
- Highly reinforced structures
- Bank vaults
- Silos
- Tunnel linings

- Irrigation canals
- Weirs and tunnels in hydro electric structures
- Airfield runways and road

FEATURES & BENEFITS

POLYHEED 1721 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

APPLICATION

POLYHEED 1721 can be added at the batch plant or on site. When adding at the batch plant, delay the addition until the cement has been thoroughly wetted and at least 80% of water added. When introduced on site, mix for further 2 minutes after addition.

DOSAGE

POLYHEED 1721 is normally dosed at 0.5–1.5 L 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 of flow required.

PACKAGING

POLYHEED 1721 is supplied in 205L sealed drums and bulk delivery.

For additional information on **POLYHEED 1721** and its use in developing a concrete mix with special performance characteristics, contact your local **BASF** sales representatives.

SHELF LIFE

POLYHEED 1721 can be stored for 12 months if stored at temperatures above 5°C, in tightly sealed original drums. If found to be frozen, thaw it and reconstitute by stirring.



The Chemical Company

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PRECAUTIONS

For detailed Health, Safety and Environmental Recommendations, please consult and follow all instructions in the product Material Safety Data Sheet.

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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.

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