

POLYHEED® 897

Mid-Range Water Reducing and Retarding Admixture

RECOMMENDED USE

All concrete where extended setting characteristics, and superior workability, and finishability qualities are desired, particularly in hot weather. POLYHEED 897 can be used for architectural or colored concrete.

POLYHEED 897 can be used with air-entraining admixtures, as long as it meets ASTM, AASHTO and CRD specifications.

DESCRIPTION

POLYHEED 897 is a multi-component, chloride free, mid-range water-reducing admixture, formulated to produce:

1. A mid range water reduction (5 a 15%) and excellent performance through a wide range
2. Increase of setting time throughout the long range of recommended dosage
3. Improved workability, pumpability and finishability, even in concrete mixes containing reduced amount of cementitious materials and/or concrete mixes containing fly ashes.
4. Comparable compressive strength development of that of water-reducing and retarding admixtures
5. Better performance with wide range types of cements, fly ashes, slags and aggregates

POLYHEED 897 admixture meets ASTM C 494 for Type A retarding admixtures, for Type B water-reducing admixture and for Type D water-reducing and retarding admixtures.

FEATURES

- Reduces water content for a given slump
- Improved time setting features
- Increased development of compressive and flexural strengths

BENEFITS

POLYHEED 897 helps produce a quality concrete with the following special benefits:

- Superior workability and pumpability in warm weather applications
- Reduced bleeding and slump
- Improves finishability in flat, formed or extruded surfaces.
- Consistent performance in concrete mixes with low, mid-range of 150 to 200mm and high concrete slumps.

POLYHEED 897 is effectively used by itself or as part of an admixture systems of BASF Construction Chemicals.

PERFORMANCE CHARACTERISTICS

The data shown are based on controlled laboratory tests. Reasonable variations from the results shown here may be experienced as a result of differences in concrete making materials and jobsite conditions.

Setting time

Concrete mix	Initial setting (Hrs:Mins)	Difference (Hrs:Mins)
Normal	3:40	
POLYHEED 897		
400 ml/100 kg	4:29	+0:49
600 ml/100 kg	5:35	+1:55

Compressive Strength

Concrete mix	7 days		28 days	
	MPa	%	MPa	%
Normal	12.9	100	18.9	100
POLYHEED 897				
400 ml/100 kg	18.4	143	24.1	128
600 ml/100 kg	24.2	188	28.8	152

Note: When used in conjunction with other admixtures, each admixture must be dispensed separately into the concrete mixture..



The Chemical Company

Performance Characteristics and Mixture Data

274kg of Type I cement by m3 and 21kg of fly ash; slump 152.8 mm, non-air-entrained concrete, concrete temperature 30°C, ambient temperature 32°C.

Dosage

POLYHEED 897 mid-range water-reducing admixture has a recommended dosage range of 350 a 900 ml / 100 kg of cementitious material for most concrete mixtures. BASF Construction Chemicals does not recommend the use of dosages outside the recommended range without trial testing. Consult your local BASF Construction Chemicals sales representative for assistance in determining the dosage for optimum performance.

Non-Chloride, Non-Corrosive:

POLYHEED 897 is a mid-range water-reducing and will neither initiate nor promote corrosion of reinforcing and prestressing steel embedded in concrete, or of galvanized steel floor and roof systems. Neither calcium chloride nor other chloride-based ingredients are used in the manufacture of POLYHEED 897.

PACKAGING

POLYHEED 897 is supplied in 208L drums, 1040L totes and by bulk delivery.

STORAGE

POLYHEED 897 admixture has a minimum shelf life of 12 months, if maintained in original sealed packaging, stored under dry and fresh area. Avoid storing directly under the sun or in high temperatures..

SAFETY

See the Material Safety Data Sheet of this product, or contact your local BASF sales representative.

The aforesaid information represents the best of our knowledge and is not based solely on the lab work but also on the experience in the field. However, given the different factors that affect the results, we provide this information without warranty and without assuming any manifested liability.

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