

## POLYHEED® 844R

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 844R can be used for architectural or colored concrete.

POLYHEED 844R can be used with air-entraining, as long as it meets ASTM, AASHTO and CRD specifications.

### DESCRIPTION

POLYHEED 844R admixture 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 of mid-range slump, particularly in 150 a 200 mm slump in concrete placement
2. Extended setting time throughout the 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. Development of comparable compressive strength to that of the water-reducing and retarding admixtures
5. Better performance with wide range types of cements, fly ashes, slag and aggregates

POLYHEED 844R admixture meets ASTM C 494 for retarding Type A admixtures, Type B for water-reducing admixture and Type D for 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 844R 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 844R is effectively used by itself or as part of an admixture systems of BASF Construction Chemicals.

### PERFORMANCE CHARACTERISTICS

Note: 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)
<b>Normal</b>	2:40	
<b>POLYHEED 844R</b>		
400 ml/100 kg	3:50	+1:10
600 ml/100 kg	5:15	+2:35

#### Compressive Strength

Concrete mix	7 days		28 days	
	MPa	%	MPa	%
<b>Normal</b>	15.1	100	21.6	100
<b>POLYHEED 844R</b>				
400 ml/100 kg	21.6	143	27.9	129
600 ml/100 kg	25.1	166	32.8	152



The Chemical Company

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

**Performance Characteristics and Mixture Data**

325 kg of Type I cement by m3, slump 165.0 mm, non-air-entrained concrete, concrete temperature 30°C, ambient temperature 32°C.

**Dosage**

POLYHEED 844R 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 844R 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 844R.

**PACKAGING**

POLYHEED 844R is supplied in 208L drums, 1040L totes and by bulk delivery.

**STORAGE**

POLYHEED 844R 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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