

# MasterPolyheed 844R

## Mid-Range Water Reducing and Retarding Admixture

POLYHEED 844R

### DESCRIPTION

MasterPolyheed 844R admixture is a multicomponent, chloride free, mid-range water-reducing admixture, formulated to produce:

- A mid range water reduction (5 a 15%) an excellent performance through a wide range of mid-range slump, particularly in 150 a 200 mm slump in concrete placement
- Extended setting time throughout the recommended dosage
- Improved workability, pumpability and finishability, even in concrete mixes containing reduced amount of cementitious materials and/or concrete mixes containing fly ashes
- Development of comparable compressive strength to that of the water-reducing and retarding admixtures
- Better performance with wide range types of cements, fly ashes, slag and aggregates

MasterPolyheed 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.

### RECOMMENDED USE

All concrete where extended setting characteristics, and superior workability, and finishability qualities are desired, particularly in hot weather. MasterPolyheed 844R can be used for architectural or colored concrete.

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

### FEATURES

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

### BENEFITS

MasterPolyheed 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.

MasterPolyheed 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>MasterPolyheed 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>MasterPolyheed 844R</b>				
400 ml/100 kg	21.6	143	27.9	129
600 ml/100 kg	25.1	166	32.8	152

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## **Performance characteristics and mixture data**

325 kg of Type I cement by m<sup>3</sup>, slump 165.0 mm, non-air-entrained concrete, concrete temperature 30°C, ambient temperature 32°C.

## **Dosage**

MasterPolyheed 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:**

MasterPolyheed 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 MasterPolyheed 844R.

## **PACKAGING**

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

## **STORAGE**

MasterPolyheed 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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## Additional Information

*For additional information on MasterPolyheed 844R admixture or its use in developing concrete mixtures with special performance characteristics, contact your local sales representative.*

*The Admixture Systems business of BASF's Construction Chemicals division is the leading provider of solutions that improve placement, pumping, finishing, appearance and performance characteristics of specialty concrete used in the ready-mixed, precast, manufactured concrete products, underground construction and paving markets. For over 100 years we have offered reliable products and innovative technologies, and through the Master Builders Solutions brand, we are connected globally with experts from many fields to provide sustainable solutions for the construction industry.*

## Limited Warranty Notice

BASF warrants this product to be free from manufacturing defects and to meet the technical properties on the current Technical Data Guide, if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. BASF MAKES NO OTHER WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ITS PRODUCTS. The sole and exclusive remedy of Purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is shipment to purchaser of product equal to the amount of product that fails to meet this warranty or refund of the original purchase price of product that fails to meet this warranty, at the sole option of BASF. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by Purchaser. BASF WILL NOT BE RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFITS) OR PUNITIVE DAMAGES OF ANY KIND. Purchaser must determine the suitability of the products for the intended use and assumes

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