

## Product Data Sheet

**BENNETT International Ltd**

# JASPREX M

### DESCRIPTION

“JASPREX M” is a cement/ concrete admixture powder based on a specially selected high molecular weight Naphthalene Formaldehyde. This has high plasticising effect and acts as high range water reducer for concrete. Jaspres M conforms to ASTM C-494 Type F & G, IS 9103-1999.

### USES

“JASPREX M” can be used in cement grout systems or to either produce extremely workable flowing concrete without loss of strength to enable large water reductions to be made for the same workability which results in a dense, watertight concrete with higher, early and ultimate strengths.

### ADVANTAGES

Substantial improvements in workability and flow properties without any increase in water, produces self-levelling concrete which can be poured in places around congested reinforcement and require little (or no) vibration to achieve optimum compaction. The bond strength of concrete to reinforcing steel is considerably increased. The internal friction and thixotropy of the mix is reduced to a minimum risk of segregation, thus making the concrete very workable. Very significant water reductions minimize shrinkage or cracking, thereby producing close textured, impervious concrete with improved durability and surface finish. This is of particular importance in liquid retaining and water bearing structures. Suitable for use in most types of concrete above and below ground level subject to surface water, water under pressure and aggressive atmospheric conditions. For a given concrete mix, keeping the cement consumption and workability constant, large reduction in the amount of mixing water can be achieved to produce concrete of high strength. Alternatively for the same concrete mix, by keeping the workability and strength constant, a definite cement economy ranging from the 15% to 25% can be obtained depending on the rate of addition. Higher production rates and/or reduction in number of moulds are possible for precast industries.

### PROPERTIES

Form :	Free Flowing Powder M	Liquid M40
Colour :	Light tan	Brown
Density:	0.7	1.22 ± 0.02
Air Entertainment	No change	
Setting & Hardening :	No retarding effect on setting time even at higher dosage.	
pH Value :	7 ± 1.	
Chloride Content :	Nil.	
Compatibility :	Can be used with all type of Portland and slag cements including sulphate resistant cement.	
Consistency :	“JASPREX M” is manufactured from carefully selected raw materials and is manufactured under BENNETT process controlled conditions to produce a consistent product.	

**Superplasticiser/High Range Water Reducing Admixture**

## **HANDLING**

“JASPREX M” is formulated from chemicals which present no fire or health hazards.

## **STORAGE**

If stored in unopened containers at normal temperatures, a shelf life of at least 12 months is expected.

## **METHODS OF USE**

“JASPREX M” is supplied ready for use in dry or liquid forms depending on application. For maximum dispersion throughout the mix, measured quantity of “JASPREX M” liquid can be added directly into the mixer at the time of mixing water. Powder material may also be pre-diluted to approx 45% prior to addition to cementitious systems. Powder however may be blended dry with mixtures incorporating dry cement. To achieve best results, the concrete mixer should be operated for at least 2-3 minutes after addition of “JASPREX M”.

## **RATE OF ADDITION** ( based on solids content of material)

The optimum dosage should be determined by site trials with the particular concrete mix. As a guide, rate of addition is generally in the range of 0.3 to 1.5% on quantity of dry cement depending on the function to be performed

### **Functional Dosages**

- 1) As superplasticiser for flowing concrete 0.4 to 0.6% of cement.
- 2) As high range water reducing admixture for high strength concrete (with large water reduction) 0.6 to 1.2% of cement.
- 3) As high range water reducing admixture for 0.8 to 1.5% of cement for high performance concrete/grouts (with extra large water reduction)

## **PACKAGING**

“JASPREX M” is available in 25kg or Bulk bags or liquid in 200l drums or 1000l IBC containers.

## **TECHNICAL SERVICE :**

*BENNETT maintains qualified technical personnel to investigate and advise on subjects related to Concrete and the Construction Industry. BENNETT can advise on the correct use and selection of right products at the right place.*

**NOTE :** This Technical data sheet is to be used as guidance only. Although the basic formulation of the product remains unchanged, production refinements arising from continuing research and evaluation programmes may occasionally result in marginal change in properties. The recommendation and properties of the product based on continuous monitoring of the product are not intended to infringe on other patents.

Company Registration Number : 5447449

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SCN 1008