



## VITCON 9002 MF

Superplasticiser for High Early Strength

### DESCRIPTION

**VITCON 9002 MF** is high range water reducing admixture based on modified polycondensate of sulphonated Naphthalene and Melamine Formaldehyde. **VITCON 9002 MF** is a brown liquid and dispersed thoroughly with cement particles in concrete. **VITCON 9002 MF** conforms to ASTM C 494 type F.

### USAGE

**VITCON 9002 MF** gives high workability without loss of strength. It also enables high water reduction to achieve dense concrete with higher ultimate strength. **VITCON 9002 MF** is very useful in various applications like pumpable concrete, precast and pre-stressed concrete, industrial /commercial flooring and in the areas where early release of shutter is required.

Test result for early shutter releasing usage **VITCON 9002 MF**:

Test	Dosage (Kg/m <sup>3</sup> )	W/C	Cement Content (Kg/m <sup>3</sup> )	Slump (mm)	Com. Strength. (Kg/cm <sup>2</sup> )			
					1D	3D	7D	28D
Control Mix		0.55	400	100	82	140	243	342
VITCON 9002 MF	2.4	0.30	400	115	116	245	340	405

The above tests are carried out at temp.  $27 \pm 2^{\circ}$  C and relative humidity  $70 \pm 5\%$ .

The above results are based on laboratory experiments on specific conditions and temperature as mentioned above. However the site trials on different condition as well as different source of material may vary. Therefore we recommend the site trial to be conducted to get optimum results of our product.

### Features

- High workability without extra water helps to produce self-leveling concrete, which can be poured inside congested reinforcement with minimum vibration to achieve optimum compaction.
- Improves bonding of concrete with reinforcement steel.

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- Increased dispersion of cement particles decreases internal friction and thixotrophy phenomena of mix reducing segregation of concrete and achieving pumping consistency.
- Significant water reduction minimizes shrinkage and cracking producing durable impervious concrete.
- Reduces permeability of concrete against water migration and corrosion of embedded steel.
- Compatible with all types of cement like OPC, PPC, PSC and SRC.

### **APPLICATION**

The optimum dose should be obtained by conducting site trials with particular concrete mix. For guidance add the **VITCON 9002 MF** at a dose of 200ml to 1000ml per 50kg of cement depending on the uses required.

USES	DOSE
For high workability	200ml to 600ml per 50kg of concrete.
For high compressive strength	400ml to 1000ml per 50kg of cement.

For a maximum dispersion in the concrete mix the measured quantity of VITCON 9002 MF is added with mixing water.

### **TECHNICAL DATA**

Properties	Values
Appearance	Brown liquid
Specific gravity	1.20 ± 0.02
Chloride content	Nil
pH value	7.5 ± 1
Shelf life	12 months
Storage conditions	Under shade
Packing	200 Kg drums

### **PACKAGING**

**VITCON 9002 MF** is available in 250 Kg. Drums.

### **SAFETY**

**VITCON 9002 MF** is non-toxic, non-flammable and non hazardous. However, any splash on the human body should be washed out immediately with plenty of water.