

# TECSY – VMA - 306

## VISCOSITY MODIFYING ADMIXTURE

### DESCRIPTION

TECSY -VMA – 306 is an aqueous solution of a higher molecular weight Modified cellulose polymer. It is a ready-to-use liquid viscosity modifying admixture (VMA) specially developed for producing concrete with enhanced viscosity and controlled rheological properties. Concrete containing TECSY – VMA - 306 exhibits superior stability and controlled bleeding characteristics, increasing resistance to segregation and facilitating placement.

The new technology of smart dynamic concrete allows concrete to be compacted without vibration, even with strongly reinforced structures. A self-compacting mix should have a high workability viscosity.

### FEATURES AND BENEFITS

- Increased viscosity and thixotropic properties
- Improved stability during transport and placing
- Controlled bleeding
- Reduced segregation, even with highly fluid mix
- Enhanced pumping and finishing
- Reduced sagging - dimensional stability
- Enables flexibility in mixture proportioning
- Improved cohesiveness of concrete
- Reduced sensitivity to normal variations in aggregate gradation
- Enhanced surface appearance
- Improved structural integrity and durability
- Tecsyl – VMA – 306 consists of a mixture of water soluble co-polymers which is adsorbed onto the surface of the cement granules, there by changing the viscosity of the water and influencing the rheological properties of the mix.

### CHEMICAL PROPERTIES

Appearance	:	Clear to Dark Brownish liquid
Relative Density	:	1.02 ± 0.02
pH Value	:	8 ± 1

## DOSAGE

TECSY - VMA – 306 is dosed at the rate of 50 gm - 500 gm per 100 kg cementitious material. Add separately after final stage.

## COMPATIBILITY

TECSY - VMA - 306 can be used for all types of OPC, PSC and PPC, silicafume, metakaolin, Rice Husk Ash (RHA).

## APPLICATION

Tecsy – VMA – 306 is a ready to use liquid admixture which should be added to the concrete after all the other components of the mix. This is particularly important in order to obtain maximum efficacy.

For best performance it is advisable to continue mixing until the mix is completely homogeneous.

To produce self compacting, Tecsy VMA – 306 should be used in combination with the other super plasticizer admixture like high performance Poly Carboxylate Ether.

A slight decrease in slump or slump flow may be noted after the addition of Tecsy VMA – 360 admixture due to the increase in concrete viscosity. If necessary, the slight decrease in slump or slump flow can be offset easily by minor increase in super plasticizer dosage.

## STORAGE AND SHELF LIFE

Shelf Life - 12 months from the date of manufacture. Should be stored at room temperature and it should be avoided from direct sunlight. If product is frozen, please agitate it slowly until melting again.

## PACKING

TECSY VMA is available in 20 kg, 50 kg carboys and 200 kg HDPE drum.

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