

## TECHNICAL DATA GUIDE- CONCRETE ADMIXTURE

# CMATRIX 101

### Viscosity Modifying Admixture for Grouts, Mortar & Concrete

#### DESCRIPTION

CMATRIX 101 is an organic based liquid viscosity modifying admixture for use in grouts, mortar and concrete where high flow and increased cohesiveness is required. It increases the homogeneity of the mix, reduces segregation, limits bleeding and sedimentation of concrete. This cohesive mix enhances the filling with increased compressive and flexural strength. It offers excellent stability to hydraulic binder-based materials and aids pumping without segregation. The mix has the ability to move and consolidate under its own weight without mechanical assistance. CMATRIX 101 conforms to performance requirements of viscosity modifying admixtures defined by EFNARC-VMA Guidelines

#### TYPICAL APPLICATIONS

- Self-compacting concrete
- Shells containing dense reinforcements
- Underwater concrete
- Grouts with ultrafine binders
- Concrete with gap-graded aggregates
- Lean concrete mixes
- Used in pumpable concrete

#### FEATURES AND BENEFITS

- Prevents aggregate settlement in SCC, Reduced segregation and uniform distribution of aggregates
- Increased viscosity and thixotropic properties
- Controlled bleeding
- Enhanced surface finish of concrete

#### PERFORMANCE TEST DATA

Appearance	White liquid
Relative density	1.01 ± 0.02 @25°C
Chloride ion content	<0.2%
pH	≥6

#### DOSAGE & DIRECTIONS FOR USE

Normal dosage rates of CMATRIX 101 varies between 0.05% - 0.40 % by weight of cementitious material. Optimum dosage should be determined by trials. The amount of CMATRIX 101 must be proportionately increased as the water content increases and may be reduced with a lower water content. Exact dosage rate depends on the amount of viscosity required, quality & quantity of binders, W/C ratio, fine aggregates gradation, ambient temperature and performance requirements. The correct quantity of CMATRIX 101 should be measured by means of a recommended dispenser. CMATRIX 101 is supplied in liquid form. It should be added in supplied form mixed with batching water.

#### DISPENSING

CMATRIX 101 is supplied in white liquid form which is instantly dispersible in water. The correct quantity of CMATRIX 101 should be measured by means of a recommended dispenser and should preferably be dispensed after pre-wetting of aggregates. It should be added in supplied form mixed with batching water.





### COMPATIBILITY

CMATRIX 101 is compatible to be used in combination with PCE admixtures, accelerators, curing compounds, retarders, , corrosion inhibitors and shrinkage reducing admixtures and not compatible with SNF based admixtures

Please consult technical department of CBS Chemicals for recommendation before adding other admixtures.

### PACKAGING

CMATRIX 101 is supplied in 210 Litre HDPE drums alternatively 1000 Litre IBC's and bulk deliveries can be arranged.

### STORAGE & SHELF LIFE

CMATRIX 101 should be stored in a shaded cool and dry place. Shelf life of CMATRIX 101 is 12months from the date of manufactured if kept in unopened, undamaged, original sealed packaging and kept within the range of 10°C to 50°C. If the product is frozen, thaw at +5°C or above and remix with mild agitation.

Failure to comply with recommended storage may deteriorate the product or packing.

### HEALTH & SAFETY

CMATRIX 101 is water based, non-flammable and non-hazardous. However it should not be swallowed or allowed to come into contact with skin and eyes. Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed, seek medical attention immediately - do not induce vomiting. For further information refer to the material safety data sheet.

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