

## MASTERGROUT CNS 100 G

CEMENTITIOUS NON-SHRINK FREE FLOW, HIGH STRENGTH GROUT

### DESCRIPTION

**MASTERGROUT CNS 100G** is a mixture of Portland cement, fines & additives which imparts controlled expansion in the plastic state as well as reduces the water demand. Reduction in water demand provides high strength & long term durable grout. Mastergrout CNS 100G is a specially formulated cementitious grout which has excellent shrinkage resistance and free flowing properties suitable for heavy machine foundations & other applications. The high strength properties of grout ensure a stable and permanent support to the equipment, machines which transfer both static and dynamic loads on to it. Mastergrout CNS-100G is supplied as a ready to use dry powder requiring only addition of clean water as per guideline of water powder ratio. Mastergrout CNS-100G has a unique formulation which does not cause corrosion of machine parts, bolts etc. in contact with it.

### TYPICAL APPLICATION

- Heavy duty machine foundations
- Base plates and bolt-pockets of turbo generators
- Columns in precast contractions
- Diesel generator sets
- Cement, textile and paper mill machinery
- Steel rolling mill beds
- Crane and transporter rails
- Concrete anchors
- Cavities, gaps and recesses

### TECHNICAL INFORMATION

Sr. No.	CHARACTERISTICS	
	Nature	Single component powder
	Color	Grey
	Fresh weight Density	2200 ± 50 kg/m <sup>3</sup> depending on actual consistency used
	Compressive strength in N/mm <sup>2</sup> at w/p =0.170 at 27°C	
	1 day	22
	3 days	45
	7 days	55
	28 days	72
	Flexural strength in N/mm <sup>2</sup>	9
	Unrestrained expansion, %	1 to 4
	Expansion Time after mixing	Starts after 20 min & stops after approximately 160 minutes at 30°C
	Size of the cubes	70.6 mm x 70.6 mm, IS standard cubes

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#### **FEATURES / ADVANTAGES**

- MASTERGROUT CNS 100G has good pourability and flowability.
- It is non-shrink and has got positive expansion.
- Rapid development of very high initial and final strengths makes MASTERGROUT CNS 100G the right system to support equipment that transfers very high static and dynamic loads.
- It is free from harmful chlorides and other aggressive chemicals which attack steel and hence ensure non-corrosive supporting system.
- It is easy to mix and apply as only water of a definite quantity has to be added as site to the readymade grout.
- It has special additives and graded aggregates which are compatible with concrete substrates.
- Pre-packed grout overcomes potentials on site batch variations.
- Promotes rapid installations & early operation of plant.

#### **DIRECTION FOR USE & DOSAGE**

- Before grouting clean all surfaces coming in contact with Mastergrout CNS-100G. All types of contaminations such as fat, oils. Dust and cement slurry must be removed.
- The concrete substrates should be thoroughly wetted and saturated with water.
- Mix 5.10 liters (0.170 w/p ratio) of water per 30 Kg pack grout for flowable consistency & mix 4.2 liters (0.140 w/p ratio) of water per 30 kg pack grout for trowelable consistency. The water powder ratios may vary depending upon climatic conditions & nature of grout consistency required.
- Mix mechanically and ensure homogeneous mix.
- When grouting thickness is over 100 mm (below base plate) mix 5 mm - 12 mm coarse aggregate (Aggregate content = 50% to 100% by wt. of MASTERGROUT CNS-100)
- When grouting depth is beyond 100 mm ,mix 5 mm - 12 mm coarse saturated surface dry, low absorption, graded aggregate in CNS100G (Aggregate content = 50% to 100% by wt. of MASTERGROUT CNS-100G)
- Exposed surfaces of MASTERGROUT CNS-100G should be cured like concrete. In order to avoid premature evaporation of the water, start curing as soon as the grout reaches its touch hard state Curing up to a minimum of 7 days is must.
- While grouting with this and upto approximately 3 hours later, strong vibrations of any kind should be avoided.
- While grouting ensures that there is no air voids remain. The grout must have maximum contact area.
- It should be poured in one side only. Never add any other ingredients like cement, sand, Fiber admixture etc. Do not use vibrators; it is a free flowing grout which doesn't need any compaction.
- Never use MASTERGROUT CNS-100G after 30 minutes of mixing.
- Check the date of manufacture before use.

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- **Yield (Consumption)**

The yield of CNS-100G for Trowelable & Flowable consistency for 30 kgs material is as follows

Consistency	Yield
Trowelable	15.4 liter/30kgs
Flowable	16.2 liter/30 kgs

### CLEANING OF TOOLS & EQUIPMENTS

Tools and equipment can be cleaned with water.

### STORAGE AND SHELF LIFE

It should be stored in cool and dry conditions. Shelf life is six months from the date of manufacturing in sealed condition.

### PACKING

30 Kgs Bag

### PRECAUTIONS

- It is non toxic, and non-flammable
- Use gloves while mixing and pouring of MASTERGROUT CNS- 100G
- Splash eyes with plenty of water and medical advice has to be taken if contacted with eyes.

### DISCLAIMER

The above information and details herein are based on the tests conducted & experience on application and usage. The user is advised to carry out the test and take trials to satisfy on the suitability of the products and meeting his requirement considering the prevailing conditions prior to apply/ using it on larger area. As the conditions under which the products are used or transported are beyond our control. We would not hold ourselves responsible on its consequential non performance.