



RAZON

PIPE MASTER - 101

In vertical – vibration cast concrete pipes the mortar which is of low water cement ratio is compacted by high frequency vibration. The concrete pipes develop high strength rapidly due to low water cement ratio.

However, surface finish of such pipes is poor. Increase in water proportion is deleterious and hence the water cement ratio needs to be finely balanced, so that sufficient strength is gained after vibration cycle. The green strength needs to be adequate for transportation into curing bay without breakage.

PIPE MASTER-101 is specially designed for manufacture of vibro-concrete/vertical pipes with steel reinforcement or other-wise and to facilitate smooth flow of concrete in annular space between inner core and outer mould and between reinforcements and moulds.

Advantages of PIPE MASTER-101

- 1.) **Workability:-** Increased flow, better compaction at low water cement ratios
- 2.) **Cohesion:-** Eliminates honey combing, ensures uniform and cohesive concrete flow within annular cavity between outer mould and co-axial central mandrel
- 3.) **Finish:-** Due to enhanced cohesiveness and high flow properties of concrete mortar, smooth surface finish is obtained,
- 4.) **Strength:-** Improved strength, higher impermeability coefficient are the major attributes available with PIPE MASTER-101, to enhance your quality.

- 5.) **Surface Imperfections:-** PIPE MASTER 101 is designed to eliminate any type of surface imperfections like cracks, honeycombs etc if at all.
- 6.) **Passivation** to metal reinforcement improves pipe service life.
- 7.) PIPE MASTER-101 improves concrete rheology, hence vibration cycles may be reduced without affecting quality hence, improving production economy.
- 8.) Higher strength enables lower lead time, enabling swift dispatch of finished product.

Dosage & Method of use

Add cement, aggregates and water as per normal practice. Add 300 ml to 600 ml PIPE MASTER-101 per 100 kg cement. Mix mortar as usual.

The effect of PIPE MASTER 101 is enhanced if it is added after 70% of the mixing has been added to the mortar. Do not add Pipe Master 101 to dry mortar / aggregates.

Few trials are essential to determine aggregates, water and PIPE MASTER-101 proportions for best results.

Overdosage will decrease the water requirement.

Standards

ASTM C-494 Type A
IS 9103

Safety precautions

Due care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. If Pipe Master 101 splatters into the eye, wash immediately. Wash Pipe master 101 off with running water if it comes in contact with skin /clothes. Seek immediate medical attention if Pipe Master 101 is accidentally swallowed. Keep away from children and animals. Reseal containers after use. For industrial use only.

Fire PIPE MASTER 101 is non flammable.

Storage and Shelf life

PIPE MASTER 101 must be stored in a cool dry place, preferably protected from sunlight. Pipe Master 101 must not be exposed to temperatures below 5°C and above 50 °C. Do not use compressed air to mix the contents of Pipe Master 101.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

Corrosivity – Non Corrosive

PIPE MASTER 101 has been designed to passivate the metal reinforcements.

Packing:

Available in 55 kg carbouys, 230 kg barrels, and tanker loads.

No.	PRODUCT DATA	
1	Colour	Light amber coloured viscous fluid.
2	Specific Gravity	1.01-1.05
3	pH	7 – 8
4	Dosage	150 ml to 300ml per bag of cement, depending on mix design & vibration cycle.
5	Packing	55 kg carbouys and 230 kg export worthy barrels.
6	Shelf life	6 months when stored in cool & dry place away from sunlight.
7	Cement Compatibility	O.P.C, P.P.C, G.G.B.S. cement.

OTHER PRODUCTS

Concrete Curing Membrane
Cement based grouts
Mould Release Agents

Accelerators for precast concrete
Epoxy bonding aids
Admixtures for Ready Mixed Concrete



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It is strongly recommended that site trials be conducted using site conditions and available raw materials to evaluate the product. Since site materials and conditions are beyond our control and since above suggestions and recommendations are based on our site trials and laboratory product evaluation & trials, and since methods of use at site are beyond our control. Hence, no guarantee can either be implied or enforceable