



RAZON

VTNB E-8 (Rapid Hardener for manufacture of dry mix concrete products)

Cement Concrete blocks are made using cement, fly ash, sand or GGBS, sand, ¼ “or 5mm grit mixed to form cement mortar. The blocks are compacted mechanically either by vibration or by pressure force.

Due to large order requirements and rapid production in shorter periods the blocks hardly gets 5-6 days curing. **Breakage of even 3-4 blocks per batch means a loss of 10% - 12%.** For a daily production of 8000+ blocks, the wastage and losses are substantial.

Due to many factors, block breakages is high and edges do not remain intact. Temperature effects are also very drastic on concrete products.

In absence of insufficient curing, adequate strength is not developed which not only increase transit loss, but also aggravate seepage in case of walls facing wind & rain. Also increase transit loss.

All these difficulties can be overcome by using our VTNB E-8; in the following products manufactured:

CEMENT BRICKS:

During stacking operation of bricks in the curing area, the edges of the bricks break away. This is due to insufficient strength in the bricks required within 24 hours of casting. Also a number of bricks break during stacking.

USE OF VTNB E-8 CAN BRING DOWN THE CURING TIME REQUIRED TO A BARE MINIMUM, SO THAT YOU MAY ROTATE YOUR INVESTMENT FASTER.

Method of use:

Blend dry mortar in mechanical mixer as usual. Add about 85-90% of water, holding back about 2-3 litres. Add VTNB E-8 to this water which is added to the mortar. Allow mortar to blend for few minutes, and cast your product.

Add VTNB E-8 to the mix eliminates this problem completely; increases plasticity and makes it strong, increasing the quality of brick and your profitability.

PAVER / INTERLOCKING BLOCKS, CONCRETE TILES:

During the demoulding of paver blocks/ interlocking block 24 hours after casting, some blocks' exhibit rough edges, and poor finish. If the strength is insufficient, block tend to break during de moulding and loading/unloading of blocks in the truck and during transit.

Add VTNB E-8 to the mix eliminates this problem completely. It not only improves the finish of the block, but also provides early high strength. M-30 to M-50 strength can be achieved in 5-6 days depending upon the mix, Enhancing the quality of block and your profitability.

HOLLOW CONCRETE BLOCKS, KERB STONES, DIVIDERS, GARDEN BLOCKS, OTHER PRECAST CONCRETE PRODUCTS:

Adding VTNB E-8 to the mix for concrete products eliminates breakages of the products maintaining sharper edges, fine finish and increases the quality of products and your profitability.

Dosage:-

Dosage of VTNB E-8 depends upon the type of cement used, content of cement and design mix. However as a starting point a dosage of about 800 ml – 1600 ml per 100 kg cement may be used. The dosage will depend upon the environment, temperature and speed of rotation desired.

Overdosage of VTNB E-8 will cause increased plasticity, reduction of setting times, and improvement of strength at all ages of the concrete. However the concrete must be cured effectively with water.
(bwoc = by weight of cement)

Cement compatibility and dosage:-

- OPC: -0.7% - 1.2 % bwoc
- PPC:- 0.8% - 1.2% bwoc
- Slag Cement :- 0.8% – 1.2 % bwoc

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 VTNB E-8 splatters into the eye, wash immediately with water and visit a doctor. Wash VTNB E-8 off with running water if it comes in contact with skin /clothes. Seek immediate medical attention if VTNB E-8 is accidentally swallowed and must be treated symptomatically. Keep away from children and animals. Reseal containers after use. For industrial use only. VTNB E-8 is not hazardous or toxic under normal circumstances

Fire VTNB E-8 is non flammable.

Storage and Shelf life

VTNB E-8 must be stored in a cool dry place, preferably protected from sunlight. VTNB E-8 must not be exposed to temperatures below 5°C and above 50 °C. If the product freezes under climatic conditions, thaw and use a mechanical stirrer to homogenize the admixture. Do not use compressed air to mix the contents of VTNB E-8.

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

Packing: Available in 220 kg barrels, and tanker loads.

No	PRODUCT DATA	
1	Colour	Honey Coloured Liquid
2	Specific Gravity	1.15
3	pH	Approx 8
4	Dosage	0.7%-1.2% by weight of cement per batch depending on the mix and cement contents
5	Packing	220 kg packing
6	Storage/life	1 yrs when stored away from sunlight in a sealed container.
7	Toxicity	Nil
8	Chlorides	As per ASTM C 494
9	Test Report	Available

OTHER PRODUCTS

- Admixtures for Ready Mix Concrete
- Accelerators for precast concrete
- Mould release agents
- Colour enhancers for coloured concrete
- Glossy Lacquers for plain / colored concrete
- Concrete surface sealers and repellants
- “New / Wet look” coatings for concrete
- Anti Efflorescence admixtures for concrete
- Concrete densifiers and coloured coatings
- Superplasticizer for RCC pipes
- Admixtures for concrete sleepers, and poles
- Admixtures for precast concrete



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AN ISO 9001:2008 ACCREDITED MANUFACTURER

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