



RAZON



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VTNB SP

(High Performance Superplasticizer for High Strength Concrete, Concrete Products & Precast Concrete)

Razon VTNB SP is a highly potent additive which when added to concrete ensures very good water reduction, sustained workability, high early and final strengths with good surface finish. It helps in achieving sharp edges in precast concrete & concrete products resulting in zero wastage due to breakages. Concrete products prepared using VTNB SP achieve rapid strength allowing faster de-moulding and production cycles.

Areas of Application

- Precast Concrete
- Concrete Products .i.e. Paver Blocks, Pipes, Bricks, Cover Blocks, Poles, tiles, kerb stones, garden walls, etc.
- Ready Mixed Concrete
- Pre-Stressed Concrete

Advantages

- 1) **Workability:-** Excellent workability and flow characteristics, very good compaction at low water cement ratios.
- 2) **Strength:-** Improved Strength within 24 hours, 72 hours and 168 hours. Capable of providing 100% strength in 72 hours. Higher rapid strength gain enables lower lead time, enabling swift dispatch of finished product.

- 3) **Cohesion:-** Ensures homogenous concrete mix even in dry mix concretes, hence, provides consistency in final product batches inspite of minor changes in other raw materials.
- 4) **Finish:-** Due to enhanced cohesiveness and excellent flow properties of concrete mortar, smooth surface finish is obtained, eliminating surface imperfections like cracks, honey-combes, etc., if at all, providing a more uniform first grade final product.
- 5) **Wastage and rejections:-** Reduced wastage, breakages and rejections between lots of manufactured products hence, improving production economy.

Standards

ASTM C 494 Type A

IS 9103

Method of Use

Add cement, aggregates and water as per normal practice. Add 150 ml to 350 ml VTNB SP per 50 kg cement. Mix mortar as usual. The effect of VTNB SP is enhanced when it is added after 70% of the mixing water has been added to the mortar. Do not add VTNB SP to dry mortar / aggregates. Use Razon SC 17000 mould release agent for easy and smooth de-shuttering.

Where Water Curing is not possible, apply Razon CCC 105AC curing compound over freshly placed concrete. Few trials are essential to determine aggregates, water and VTNB SP proportions for best results.

The dosage will depend upon the environment, temperature, aggregates, water cement ratio and speed of mixing. Over dosage will decrease the water requirement & modify the setting times.

Product Data

S/n	Product Data	
1	Colour & Consistency	Light Tan Coloured, Free flowing fluid
2	Specific Gravity	1.10 ± 5% at 25°C
3	pH	< 8
4	Dosage	150 ml- 350 ml per 50 kg cement depending on nature of sand, cement, ambient temperature and nature of application.
5	Packing	55 kg cans and 230 kg barrels
6	Storage/life	1 year, store in cool & dry place in a closed container away from direct sunlight.
7	Toxicity & Corrosion	Nil. Neither initiates nor promotes corrosion of steel.
8	Cement Compatibility	OPC, PPC, PSC.

Rev-001 Dated-23/06/2021

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. All Razon datasheets are updated on a regular basis. It is the user's responsibility to obtain the latest version.



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