

Fastcrete

Fast Setting Concrete Mix is designed to open the traffic in 3 hrs

Why Fastcrete?

Does Normal concrete have good comp strength?

>YES

Does Normal concrete can open the traffic with in 3hrs?

>NO

We all know concrete is very good in compression. But for repair work and water stagnated area, we need fast setting concrete

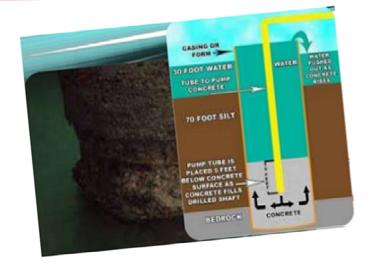


Fastcrete is a proportioned blend of dry aggregate, graded sands, cement and set accelerating additives to give a concrete mix suitable for all general concreting applications where fast setting characteristics are required.



How does Fastcrete Work?

- Accelerating admixtures increase the rate of hydration of C₃S & C₃A phases of cement, providing earlier strength development.
- It neutralizes the slowdown of setting due to the use of plasticizers.
- In cold weather conditions it uses the heat of hydration to prevent freezing.
- Accelerating admixture are usually chloride free in order to avoid reinforcement corrosion.
- Combined with a WRA, accelerating admix gives no significant change in workability.







More about Fastcrete

Benefits & Advantages

- Shortens the setting time of cement and therefore increases the rate of gain of strength Fast setting concrete.
- Permit earlier removal of form work.
- Reduce the required period of curing.
- Quick repairs than the conventional mix.
- Open the traffic in 3 hrs.
- Reduces segregation and increase density and compressive strength

Applications

- Interior Concrete Roads.
- Repair works such as Road, Sidewalks, Curbs, Steps, Ramp & Walkways.
- ► Floor slabs & Footings.
- Pipe and Post footings.
- Pools & Fish pools.
- Precast elements.
- Driveway Repairs.



Fastcrete – Physical Properties

| Strength Class (Comp) | As per requirement |
|--------------------------|---|
| Setting time of Concrete | Max 2 hrs |
| Workability | Manual |
| Slump at Acceleration | Not more than 100mm slump at the time of add accelerator. |
| Workability Retention | Up to 3 Hrs from Batching time |
| Dosage of Accelerator | 0.5 to 2.5 % by wt of cement |
| Compaction Required | Yes |

^{* -} Plastic Density measured at 30 min from batching time

Technical details shall be advised on request.

- Special Precautions
 - Ensure Proper,Accelerator
 - It can be placed in 20 minutes.
 - Compatibility of admixture between WRA & Accelerator.
 - Chloride Accelerator cause reinforcement corrosion

