

Post Tension Mix

Readymix application products



Post Tension Mix

What is Post Tension Mix?

Post Tension Mix is a Readymix branded product with specific focus on strength gain, finishing and workability that can be used for all post tension applications or areas where early strength gain is a construction requirement.

The product offers a target strength of no less than 30 MPa at 28 days, and a guaranteed 18 MPa after 3 days under standard curing conditions. The 3 days is calculated as 72 hours after the completion of the pour.

Features of Post Tension Mix

- Is pumpable due to high workability
- May be easily placed
- Makes for easy compaction
- Is easily finished
- May be powerfloated

Benefits of Post Tension Mix

- Guaranteed early strength performance.
- Allows for more efficient use of labour as a result of easier placing, compacting and finishing.
- Improved cohesion results in better off shutter finishes.

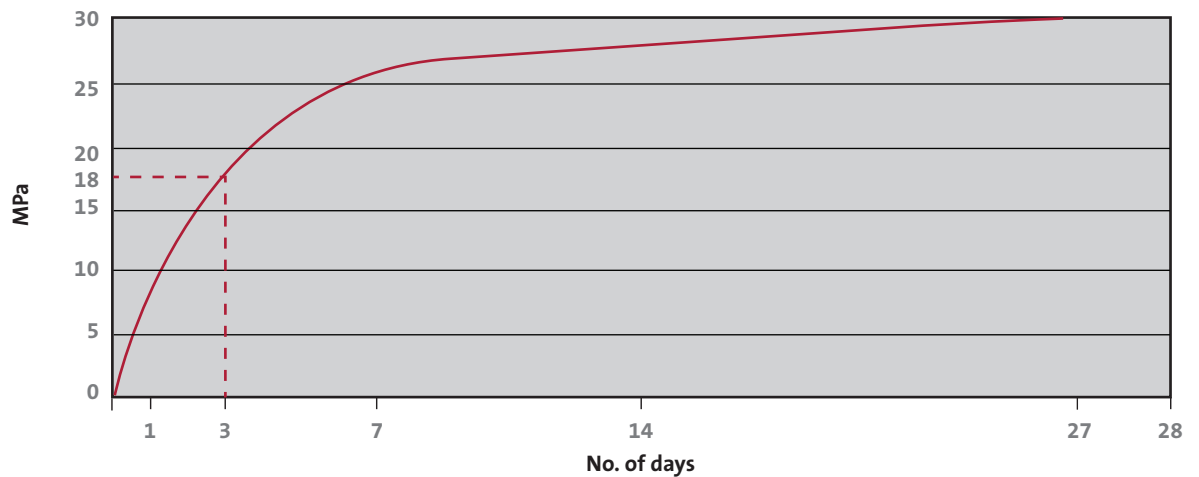


Performance based product offer

AfriSam produce performance based concrete aimed at ensuring the best product solution and cost effectiveness. This is achieved by ensuring that the concrete gains strength at a suitable rate for the application. Below is a typical “30 MPa Post Tension

Mix” strength gain curve showing the expected MPa achievement over the 28 day cycle. Rapid strength gain is required in order for Post Tension Mix to achieve the 3 day hurdle, and allow for tensioning of the slab.

Typical minimum 28 day strength gain curve for Post Tension Mix

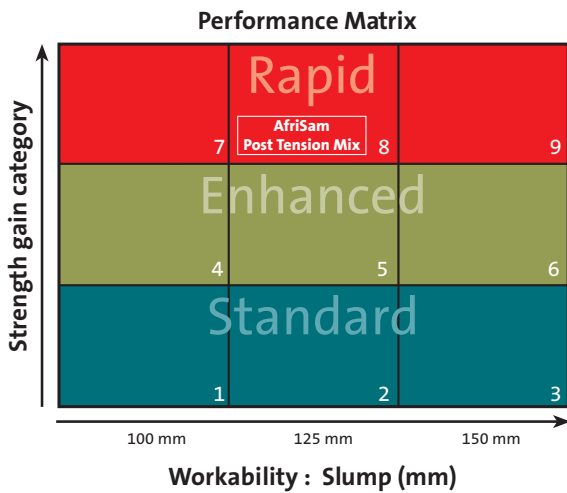


Notes:

- The following result is attained under standard testing and curing conditions.
- Actual performance within the structure may vary due to adverse climatic and curing conditions.
- Detailed strength gain curves by project may be requested from Technical Services.

Optimal product offering

The more workable a concrete mix is, the easier it is to place, compact and finish. Post Tension Mix has been formulated in conjunction with our product specialist customers and is optimally designed to provide the perfect rate of strength gain and workability for the application.



Use in other applications

AfriSam have gone to great lengths to design new products that are fit for purpose. In the unlikely event of having extra concrete left over after a pour, Post Tension Mix may also be used for suspended slabs, surface beds, retaining walls and foundations.

Plastic cracking in concrete

Two types of cracking occur in concrete. The information provided is to assist in the reduction of cracks. The types of cracks that may occur are:

- Plastic shrinkage cracking
- Plastic settlement cracking

Plastic shrinkage cracking

The underlying cause of these cracks is the rapid removal or evaporation of water from the concrete. This is exacerbated with higher concrete or ambient temperatures, relative humidities or wind velocities. It can also result owing to absorbent formwork. The cracks usually appear within two hours after compacting but are often not noticed until the following day. Plastic shrinkage cracking may be prevented by:

- Erection of wind breaks
- Protection with moisture retaining covers
- Fog spraying before finishing of concrete

Plastic settlement cracking

The underlying cause of these cracks is solid particles settling which displace mixing water that rises to the surface. These cracks form immediately in the vicinity of reinforcing steel or deeper sections.

- Re-vibrating of concrete at a suitable time may reduce plastic settlement cracking



Readymix Plant Locations

Gauteng

Alrode
Eikenhof
Ferro
Jukskei
Kwagga
Kya Sands
Nancefield
Olifantsfontein
Rosslyn
Scoop
Spartan
Technikon
Vanderbijlpark
Vereeniging
Wadeville
Wynberg

Mpumalanga

Evander
Middelburg
Witbank

KwaZulu-Natal

Coedmore
Ladysmith
Newcastle
Ottawa
Umgeni
Isipingo

NorthWest

Brits
Marikana
Rustenburg

Western Cape

Bellville
City
Philippi
Peninsula

Botswana

Gaborone

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