

Suspended Slab Mix

Readymix application products



Suspended Slab Mix

What is Suspended Slab Mix?

It is a Readymix branded product with specific focus on strength gain and workability that is suitable for all slabs above ground, for high rise buildings, parkades and hollow block systems.

Suspended Slab Mix has a target strength of 20 to 40 MPa. The target slump for Suspended Slab Mix is 125 mm.

Features of Suspended Slab Mix

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

Benefits of Suspended Slab Mix

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

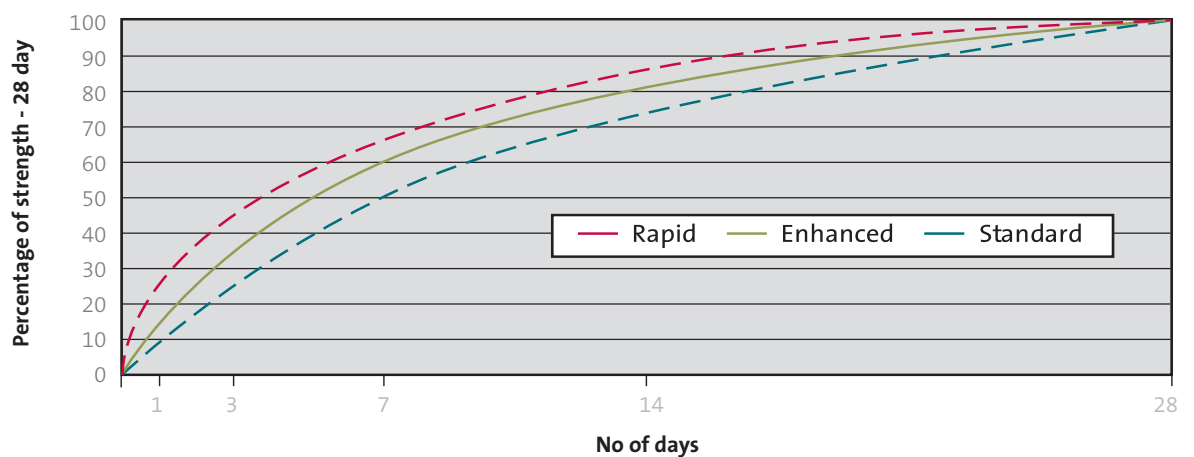


Performance based product offer

AfriSam produce performance based concrete which is aimed at ensuring the best product solution, cost effectively. This is achieved by ensuring that the concrete gains strength at a suitable rate for the application. Shown below is a typical 25 MPa concrete strength gain curve depicting three AfriSam differential strength gain options which provide the basis for strength gain solutions. Suspended Slab Mix requires at least an 'enhanced strength' gain to facilitate formwork stripping. Enhanced concrete is a versatile product suitable for all applications when the combined benefits of durability and early strength gain are required.



Typical minimum 28 day strength gain curve for 25 MPa concrete



Notes:

- The curves serve as a guide and may vary.
- The following results are attained under standard testing and curing conditions.
- Actual performance on site may vary due to adverse climatic conditions.
- Detailed strength gain curves by project may be requested from technical services.

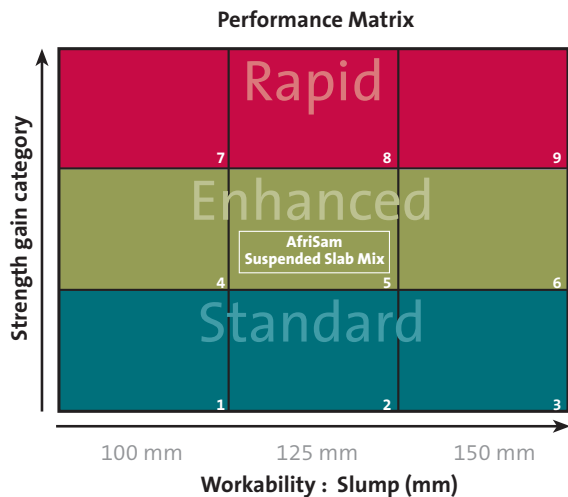
Strength gain category	Rapid		Enhanced	
	Normal	Cold	Normal	Cold
Slabs with props left in place	4	7	6	10
Beam soffits with props left in place and ribs of a floor construction	7	12	10	17
Slab props including cantilevers	10	17	10	17
Beam props	14	21	14	21

No. of days for stripping

- 1) The time of removal of formwork allowing for the surface finish is to be decided by the designer. This table should be regarded as a guide only.
- 2) In cool weather, stripping times are to be determined by interpolation between the periods specified for normal and cold weather.

Optimal product offering

The more workable a concrete mix is, the easier it is to place, compact and finish. Suspended Slab Mix has been formulated in conjunction with our product specialist customers and is optimally designed to provide 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, Suspended Slab Mix may be used for retainer 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 exasperated with higher concrete or ambient temperatures, relative humidities or wind velocities. It can also result due 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 spray before finishing of concrete.

Plastic settlement cracking

The underlying cause of these cracks is solid particles settling which displaces 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
Olifantsfontein
Rosslyn
Scoop
Spartan
Technikon
Vanderbijlpark
Vereeniging
Waderville
Wynberg

Mpumalanga

Evander
Middelburg
Witbank

NorthWest

Brits
Marikana
Rustenburg

KwaZulu-Natal

Coedmore
Ladysmith
Newcastle
Ottawa
Umgeni
Isipingo

Western Cape

Bellville
City
Philippi
Peninsula

Botswana

Gaborone

Contact the regional office in your area for Sales or Technical Services or any other information.

Gauteng:	0860 200 500	(011) 670 5777
KwaZulu-Natal:	0800 313 151	(031) 460 9000
Western Cape:	0860 009 114	(021) 659 3100
Botswana:	0026 73500172 (Tel)	0026 73500173 (Fax)

customer.service@za.afrisam.com

www.afrisam.com

