

Surfacebed Mix

Readymix application products



Surfacebed Mix

What is Surfacebed Mix?

Surfacebed Mix is a Readymix branded product with specific focus on strength gain, finishing and workability that can be used for slabs on the ground i.e. factories, shopping centres and parking areas.

Surfacebed Mix has a target strength of 20 to 40 MPa. The target slump for Surfacebed Mix is 100 mm.

Features of Surfacebed Mix?

- Is easily compacted, floated and finished.
- Has optimal cutting time.

Benefits of Surfacebed Mix?

- Optimal cutting time leads to better productivity.

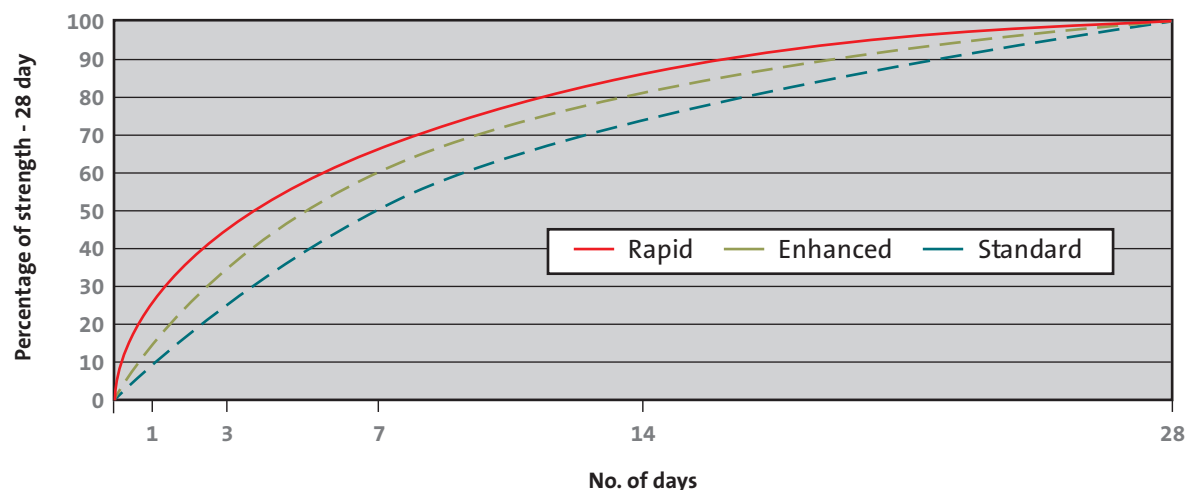


Performance based product offer

AfriSam produce performance based concrete 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. Rapid strength gain curve is applicable to Surfacebed Mix as the product needs to stiffen and gain strength quickly for powerfloating and cutting.

Typical minimum 28 day strength gain curve for 25 MPa concrete

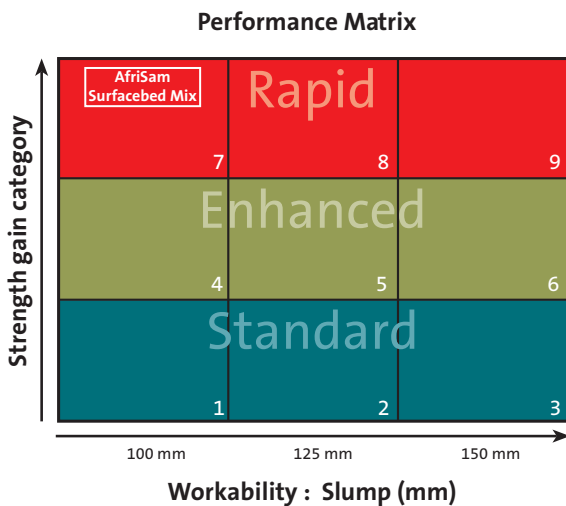


Notes:

- 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.

Optimal product offering

The more workable a concrete mix is, the easier it is to place, compact and finish. Surfacebed 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. However, in the unlikely event of having extra concrete left over after a pour, Surfacebed Mix can be used for foundations, retaining walls and suspended slabs.

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 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 the settling of solid particles 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
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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