

# Retainer Mix

Readymix application products



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## What is Retainer mix?

It is a Readymix branded product with specific focus on strength gain and workability, to ensure the mix is ideally suited to external concrete wall applications.

Retainer Mix has a target strength of 25 to 45 MPa. The target slump for Retainer Mix is 125 mm.

## Features of Retainer Mix

- Suitable for direct, crane or skip discharge.
- Flows easily.
- Provides an excellent off-shutter finish.
- Has increased resistance to aggressive environments due to the slag and/or fly-ash in the concrete mix.
- Quick discharge due to high workability.

## Benefits of Retainer Mix

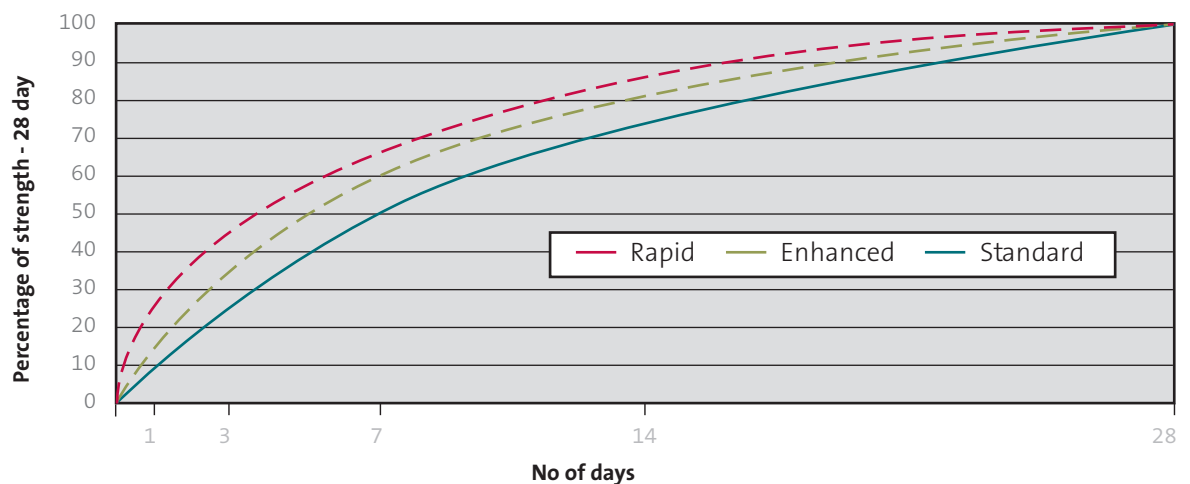
- Improved off-shutter finish requires less remedial work.
- Allows for more durable concrete with less likelihood of concrete deterioration.
- Minimal vibration required.



## 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. Standard strength gain is most applicable to Retainer Mix as the product does not usually require quick stripping times.

Typical minimum 28 day strength gain curve for 25 MPa concrete

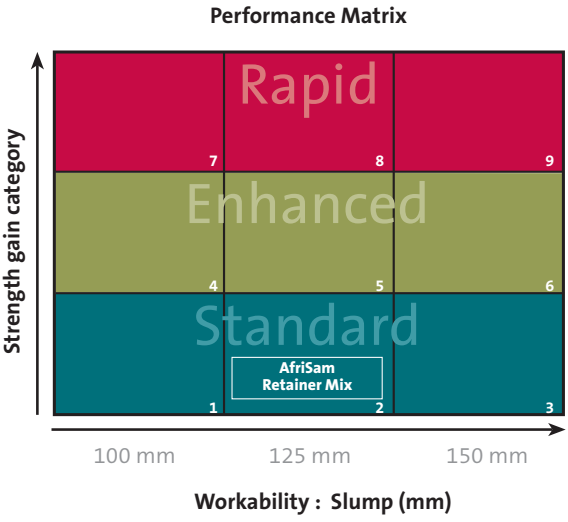


## Notes:

- 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. Retainer 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.



**Plastic cracking in concrete**

Various types of cracking occur in concrete. The information provided is to assist in the reduction of cracks. One type of cracking which may occur in retaining walls is:

- Plastic shrinkage 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.



**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, Retainer Mix may be used for foundations.



## 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

### 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.

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**KwaZulu-Natal:** 0800 313 151 (031) 460 9000  
**Western Cape:** 0860 009 114 (021) 659 3100  
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