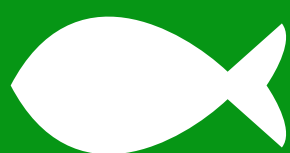


# PRODUCT GUIDE

**FOR DRY APPLICATIONS**



**Product of South Africa**



**DIY**



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**DAMFIX**  
.....dry



## WHAT IS **DAMFIX Dry**?

**DAMFIX Dry** is a unique formulation of earth dam sealing polymer with added minerals to assist with the bonding process of soil. The added minerals to the polymer particles gives the soil structure a boost, promoting the formation of a natural seal.

**DAMFIX Dry** is ideally applied to seal new earth dams or existing empty dry earth dams & ponds in need of repair. The final process of this sealing method is rounded off with a light application of **DAMFIX Wet** after the dam has been filled with water, which consolidate the seal as a whole.

Once the dam has been filled with water, the hydraulic weight of the water is necessary for the dam sealer to expand rapidly, creating the seal. A dam should ideally be allowed 1 month to settle before the introduction of aesthetic elements, plants, and aquatic life.

Made in South Africa, this earth dam sealant effectively seal leaks without disrupting the natural environment. This product promotes the formation of natural processes in an earth dam.

**DAMFIX Dry** has been formulated and refined to exceed industry standards in both safety and ease of use.

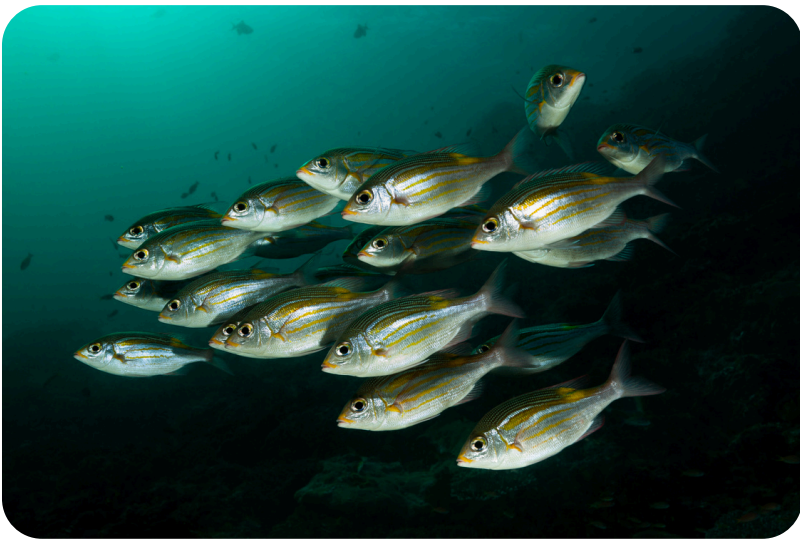
Made in South Africa





# KEY FEATURES

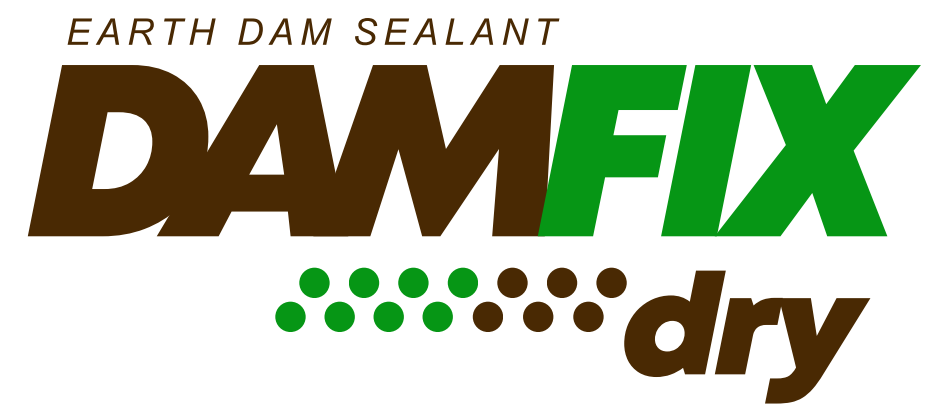
EARTH DAM SEALANT  
**DAMFIX**  
.....dry



- ✓ Easy-to-apply yourself.
- ✓ No pre-mixing required, just apply.
- ✓ Non-toxic and environmentally friendly.
- ✓ Creates a permanent seal.
- ✓ Improves soil water holding capacity.
- ✓ Suitable for small and large earth dams.
- ✓ Suitable on most soil types, including loam, silt, clay, coarse, fine & sandy soils.
- ✓ Suitable for most levels of water loss, whether its a slow leak or a fast leak.
- ✓ Suitable for leaks in the base & walls of a dam.
- ✓ Animal hooves won't damage the polymer.
- ✓ Safe for plants, animals and aquatic life.
- ✓ Safe for Irrigation systems.
- ✓ Does not interfere with the natural plant and animal life in the dam.



# TECHNICAL DATA



## Important to Note!

In order to achieve suitable results, it is important to note that **DAMFIX Dry** is used in conjunction with **DAMFIX Wet**.

Follow stipulated application guidelines as indicated in this manual.

## Packaging

### DAMFIX Dry – 20 Liters

**Clay, silt, loam soil types:**

= est. coverage area of 200m<sup>2</sup>.

**Porous, coarse, sand soil types:**

= est. coverage area of 150m<sup>2</sup>.

Then a follow-up light application is essential with:

### DAMFIX Wet – 20 Liters

= est. coverage area of \*800m<sup>2</sup>.

\*This coverage indication is only applicable when used in conjunction with **DAMFIX Dry**.

## Activation Time

Activation is immediate once the polymer comes in contact with water. The polymer particles reach full swell capacity over 7 to 14 days.

## Shelf Life

5 years in a dry sealed container.

## Life After Application

The polymer will degrade over a period of 8 – 10 years, during which time the natural build-up of silt and clay will have created a permanent natural seal.

## Effectiveness

Indicated application is normally sufficient, however, aggressive or challenging porous soil structures may require an increased dosage.

## Composition

**DAMFIX Dry** is a blend of natural polymers, synthetic super-absorbent polymers, and added minerals in dry powder form.

It contains linear and cross-linked polymers to seal most types of soil, for any sized project.

The polymer particles swells up to 400 times its original weight.

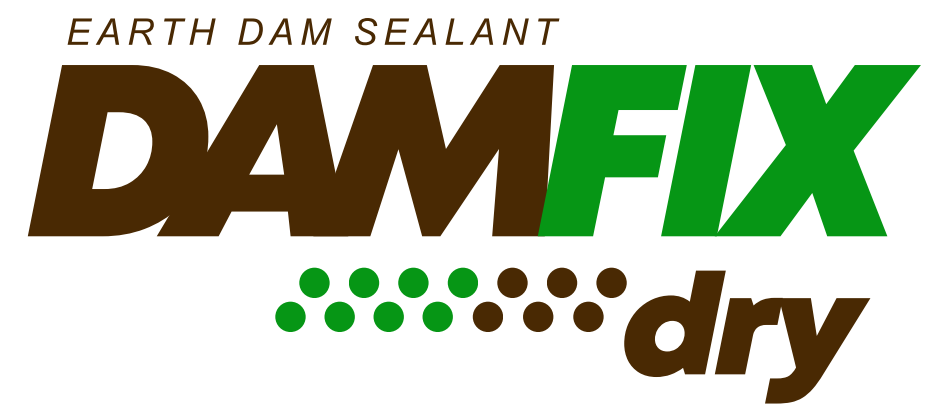
Water flow and pressure draw the polymers into the soil structure providing a natural sealing action.

## Warning

Water and soils with a higher alkalinity, salinity or acidity may affect product performance. A higher application rate is recommended in this instance.



# BONDING PROCESS



**BEFORE  
ACTIVATION**



**AFTER  
COMPACTION**

After the application of **DAMFIX Dry** and filling the dam with water, the polymer begin to hydrate and expand (into a gel) on contact with water.

**DAMFIX Dry** creates a plug to stop the leaks. After bonding with the soil, the texture of the soil will reflect to that of clay and/or silt.

**NOTE:** Once the bonding process has completed, there is not a gel layer on the dam floor, nor is there gel floating or drifting in the water. Natural processes in the dam environment will commence.



**AFTER  
ACTIVATION**



**BONDING  
WITH SOIL**



Compacted soil  
without any product



Compacted soil  
with **DAMFIX Dry**



# APPLICATION

EARTH DAM SEALANT  
**DAMFIX**  
.....dry

## 1 Preparation

Pump out the existing water.

Remove all plants, organic or foreign matter (stones, rocks, rubble, roots, etc) from below the final water level.

## 2 Slopes & Spillway

All slopes should ideally be prepared to a maximum of 1:3, or at a maximum gradient of 45 degrees. This step is important to achieve the necessary compaction that is required for product success.

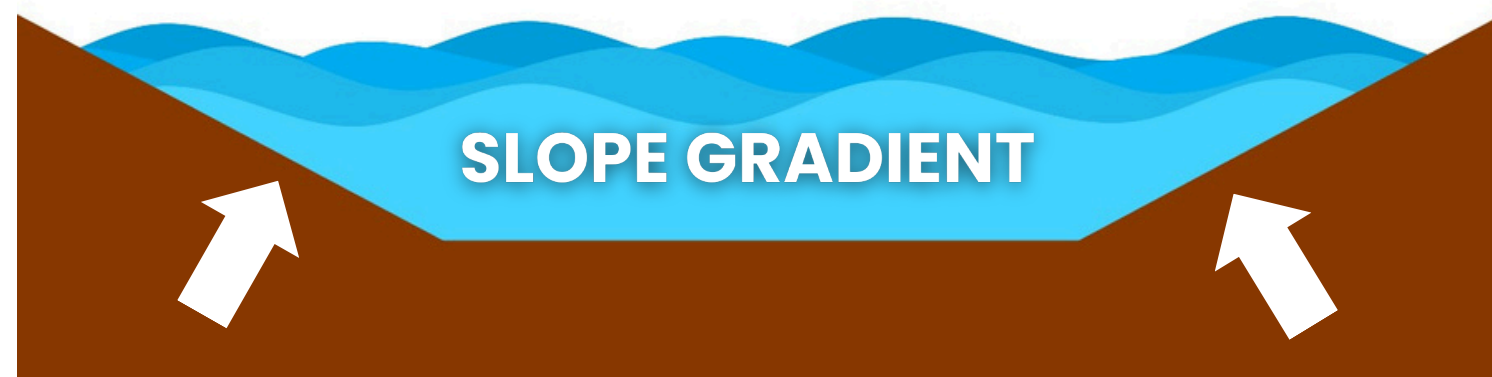
Form an adequate spillway.

## 3 Soil Loosening

Loosen the soil in the area to be sealed to a depth of 200-300mm. A Rotorvator can be used.

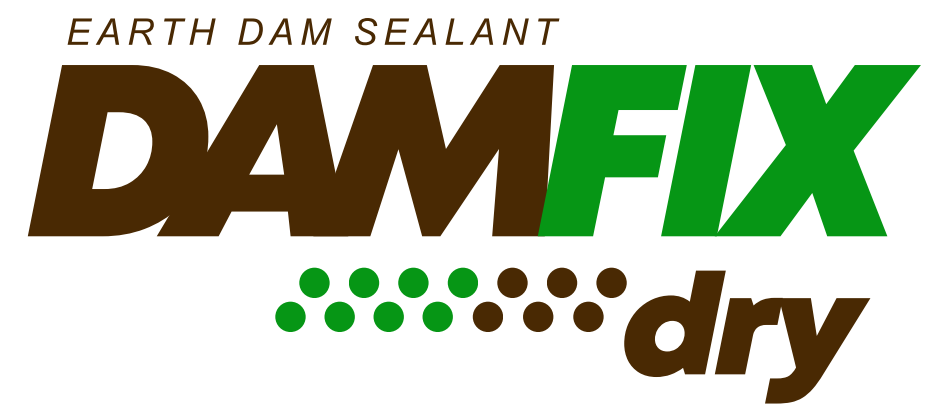
## 4 Wet Area

Wet the area to be sealed with water. Sprinkling by garden hose is sufficient. **DAMFIX Dry** is a very fine granular powder and wetting the soil will assist the product to attach to the soil. Wetting the soil will also assist with the compaction process.





# APPLICATION



## 5 Spreading

Spread **DAMFIX Dry** evenly across the surface with a spreader.

**Clay, silt, loam soil types:**

20 Liter = est. coverage area of 200m<sup>2</sup>.

**Porous, coarse, sand soil types:**

20 Liter = est. coverage area of 150m<sup>2</sup>.

## 6 Tilling

Till **DAMFIX Dry** into the soil up to 150mm deep with a Rotavator, Garden Fork or Garden Rake.

(The use of a TLB is not recommended, as consistent tillage is not achieved. Contact **DamPro** for advanced instructions if using a TLB).

## 7 Compact

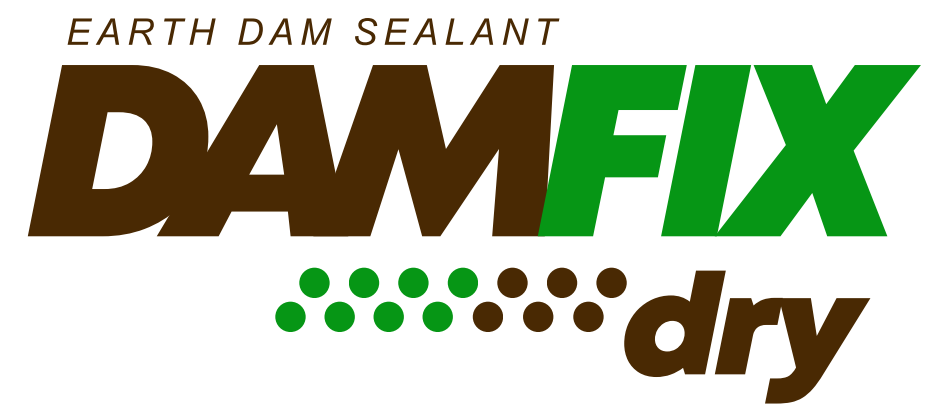
Compact the area using a smooth drum vibratory roller such as a Bomag to provide a sealed thickness of approximately 100-150mm. Repeat at least 3 times over the whole surface.

Soil compaction is crucial for earth dams. It significantly increases the soil's strength, reduces permeability (seepage), and minimizes settlement, all of which are essential for the stability and longevity of the dam.





# APPLICATION



## 8 Fill with Water

Fill the dam with water, or raise the water level to a minimum of one meter deep.

Allow 14 days for the **DAMFIX Dry** seal to activate and expand.

Maintain water levels during this time, because the product requires water pressure to activate, expand and bond.

## 9 Wet Application

Finalize the sealing process with a light application of **DAMFIX Wet**:

**Clay, silt, loam soil types:**

20 Liter = est. coverage area of 800m<sup>2</sup>.

**Porous, coarse, sand soil types:**

20 Liter = est. coverage area of 600m<sup>2</sup>.

The wet application is essential to consolidate the dry seal. When doing the wet application, use a canoe and spreader on a fine day, with no wind and no rain present.

**--- SEAL PROCESS COMPLETE ---**

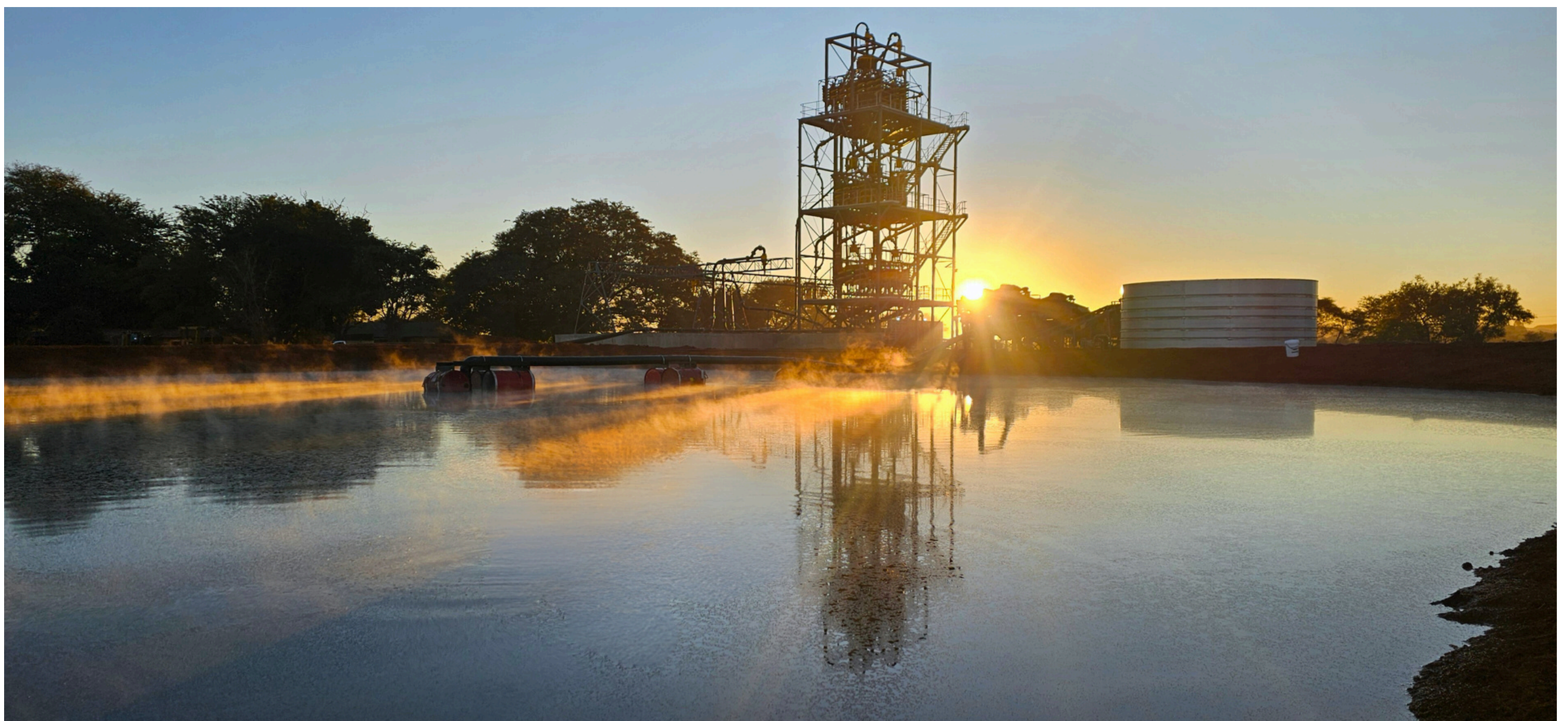


**DAMFIX Dry** is most effective, when applied by using the “mixed blanket” method, in the construction stage of a dam or when an existing dam has been completely drained, as only under these conditions can the necessary compaction be achieved. The wet application of **DAMFIX Wet** is a crucial part of the process in order to consolidate the seal as a whole. The prescribed method of sealing an earth dam in this guide drastically reduces permeability in soil.



# FINAL RESULT

EARTH DAM SEALANT  
**DAMFIX**  
.....dry



After completion of the sealing process, the following processes can be expected:

**Irrigation dams** can be put to work immediately.

**Fish and aesthetic elements** can be introduced to a dam one month after completion of the sealing process.

**The settlement period** of the soil struc-

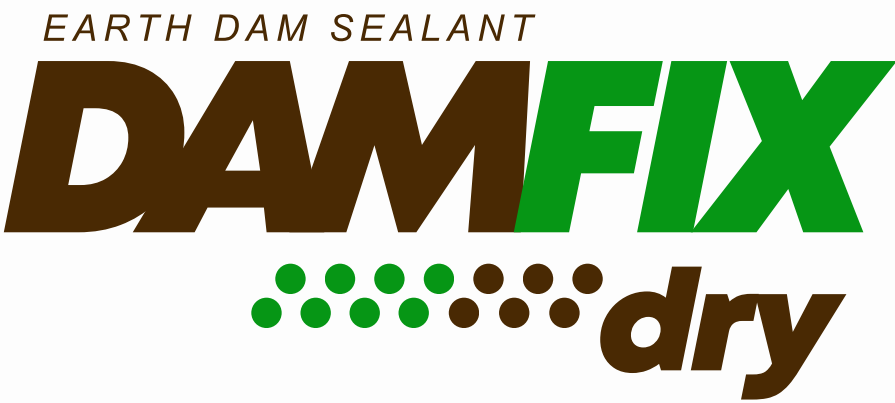
ture is between 2 to 6 months when sealing an earth dam with the mixed-blanket method.

**The bonding process** of the polymer with the soil, depending on soil type, can be up to 6 months.

**Consistent hydrostatic pressure** is required for the product to bond with the soil structure. Maintain levels of at least one meter depth.



# COVERAGE & PRICES



Soil Type	POROUS COARSE SAND	CLAY SILT LOAM
Bucket Size	20L	20L
Weight	21kg	21kg
Estimated Coverage	150m <sup>2</sup>	200m <sup>2</sup>
Price VAT incl.	R5600	R5600
Price per m <sup>2</sup> VAT incl.	R37.30	R28.00



Soil Type	POROUS COARSE SAND	CLAY SILT LOAM
Bucket Size	20L	20L
Weight	16kg	16kg
Estimated Coverage	*600m <sup>2</sup>	*800m <sup>2</sup>
Price VAT incl.	R8750	R8750
Price per m <sup>2</sup> VAT incl.	R14.60	R10.95

\*This coverage ratio only applies when used in conjunction with **DAMFIX Dry**. Additional courier charges apply. Delivered nationwide via The Courier Guy. Price indicators as at 1 April 2025. Prices are subject to change.



# A BIG NO-NO!



**DAMFIX Dry** and **DAMFIX Wet** was developed to Seal Earth Dams ONLY. It is not suitable for use on the following applications:



**Swimming Pools**



**Roofs**



**Lined Dams**



**Zinc Dams**



**Cement Dams**



**Plastic Tanks**



**Septic Tanks**



**Water Troughs**



**HEAD OFFICE  
& MANUFACTURING**



- by appointment only

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Spartan, Kempton Park

Johannesburg

Phone: (+27) 78 681 2314

Email: info@damfix.co.za

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Ronelle Badenhorst	Agent	Colesberg	071 234 3388
Chris Mouton	Boere Agri	Christiana	079 500 8465
Willem Wentzel	Flexi Linings	Potchefstroom	083 777 7670
Andre Fourie	Rubbersealit	Roodepoort	082 927 2001
Ryan Heystek	DamPro	Kempton Park	082 820 8787
Belinda Labuschagne	DamPro	Kempton Park	078 681 2314
Tiaan Smith	Agri Rovers	Bethal	063 779 9238
Kyle de Cruz	Agri Rovers	Bethal	079 025 4731
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