

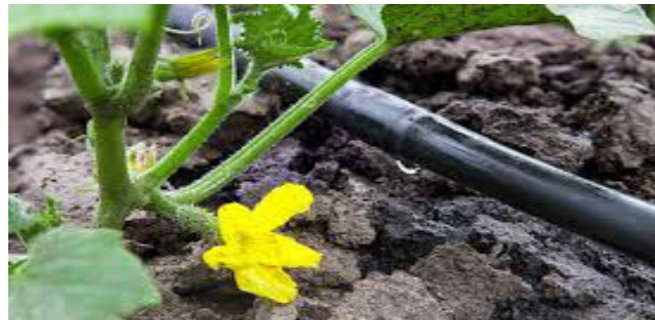


The benefits for your soils, crops and water use efficiency:

- Up to 400% in water penetration into the hardest to wet soils.
- Banks water – over 80% more water can be stored in your soils profile – Deeper & Wider
- Over 70 times the volume of soil is moistened
- You have a greater return on each litre of water irrigated
- Helps to carry away excess problem salts
- Improves and facilitates balanced soil microbial growth – where others destroy it.
- These core benefits of Penmax® combine to create a healthier, bigger root system's in your crops resulting in greater nutrient uptake and ultimately increased yield, quality and improved soil health.

Penmax® is easy to use, safe and cost effective:

- A true non-ionic soil penetrant
- An easy, safe to use and handle clear liquid
- Compatible with most fertilisers and chemicals
- Suitable to be used in drip, sprinkler, pivots, laterals and flood irrigation systems
- Completely safe for all crops, grasses and turf
- Ideally applied directly in the irrigation water through the entire irrigation set at typical application rates of 5 -10L per hectare. Contact us for specific application rates for varying soil types and crops
- Can be applied via boom sprays with large amounts of water.
- Available in 19L, 208L and 1040L packaging



ADVANCED NUTRIENTS

1800 244 009
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PENMAX®

SOIL PENETRANT

CREATE "THE PENMAX® ZONE" IN YOUR SOIL



INCREASE WATER
PENETRATION
BY UP TO 400% -
VERTICALLY AND
LATERALLY



REMOVE SALTS FROM
THE ROOT ZONE –
86% SAR REDUCTION



INCREASE BENEFICIAL
MICROBIAL ACTIVITY
& BALANCED
GROWTH



OVER 80% MORE
WATER STORED
IN SOILS –
DEEPER & WIDER

PENMAX® IS A TRUE NON-IONIC SOIL PENETRANT,
MOVING WATER HORIZONTALLY AND VERTICALLY
IN HARD TO WET SOILS AND FLUSHING EXCESS
SALTS FROM THE ROOT ZONE.



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Increase Water Penetration into Hard to Wet Soils by up to 400% with Penmax®

For more than 30 years Penmax® has been repeatedly tested and monitored and has continually proven to greatly improve water penetration into even the hardest to wet soils.

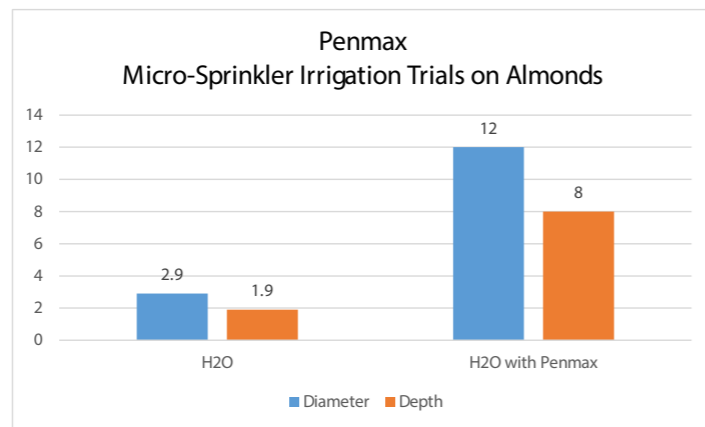
A true non-ionic soil penetrant, Penmax® unique ability to spread water through soils both vertically and laterally, but even more uniquely continues to penetrate after the irrigation cycle.

Micro-Sprinkler Irrigation Trials – Almonds

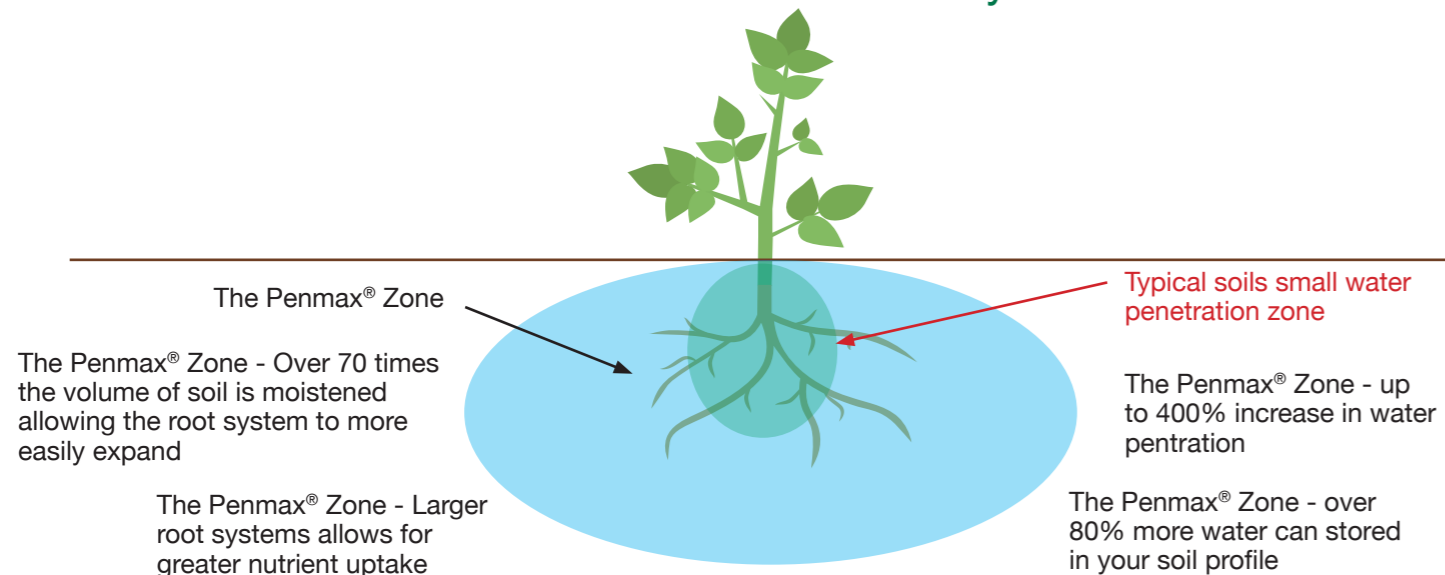
An almond orchard with micro sprinkler irrigation was getting water penetration to a depth of approximately 60 centimetres (2 feet) and a diameter of 90 centimetres (3 feet).

PENMAX® was added at the rate of 5 litres per hectare over the entire length of the set. The water penetration went down to a depth of 250 centimetres (8 feet) and out to a diameter of 365 centimetres (12 feet).

This application revived the orchard and saved it. Yields went from 363 Kg to 820 Kg.



Get “The Penmax® Zone” in your soil



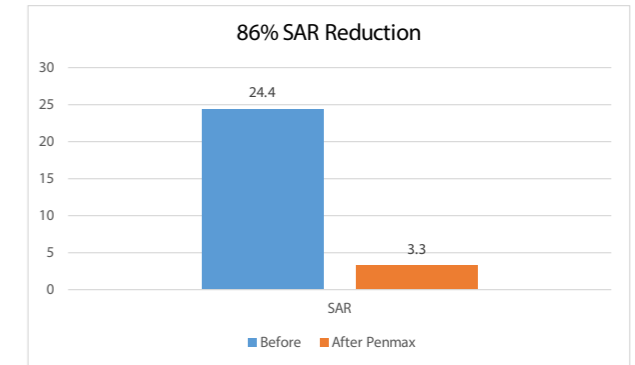
Flush Salts from Your Plants Root Zone

Many soil penetrants claim to move water deeper, yet few meet such claims.

Penmax® not only gets your valuable water deeper and wider, but has the unique ability to flush excess salts from your plants root zone.

The combination of ingredients in Penmax® creates a wetter and salt reduced soil resulting in healthier, bigger yielding crops year after year.

$$SAR = \frac{NA}{\sqrt{\frac{(CA + Mg)}{2}}}$$



Better Soil Biology

Penmax® Promotes Improved and Balanced Microbial Growth

Many soil penetrants have an ability to slightly improve water penetration on some soil types, but they can also have a detrimental effect on your soils biology.

Many penetrants can destroy different soil biology and create an in-balanced & unhealthy soil zone that can affect your soils and crops long term health.

Penmax® has the opposite effect – Penmax® improves your soils microbial activity and balance, improving long term soil health and obvious benefits to your crops.



One drop of field strength Penmax® was applied to the centre of the left petri dish.

One drop of 1/10th strength Penmax® was applied to the centre of the right petri dish.

Results: Penmax® permeated the entire area and created conditions to completely cover the petri dish with microbes.

Conclusion: Penmax® helps increase the microbial population of the soil.

