



halcyan
water conditioners

Horticultural Case Study Or How to Make Cut Flowers Last Longer



Elsingas at York Rose Farm

Knowing how to make cut flowers last longer is a dilemma faced not only by florists but by growers on a daily basis. The Elsinga family own and operate the York Rose Farm in Zambia. They export 40 million roses to Europe annually so making sure those blooms stay fresh for as long as possible is an absolute necessity for their business.

The Halcyan Solution

Hard water from a bore (well) typically has very high surface tension. This inhibits the ability of the water to be taken up into the plant stem and absorbed into the cell structure. It is water that supports the stems and keeps them firm and straight and if it is not well absorbed then the plant quickly becomes dehydrated and wilts.

On the other hand any hard water that is treated with a non-chemical, non-electrical Halcyan Water Conditioner becomes 'softer'. This means that the surface tension of the water is lowered significantly. This then allows the water and minerals to be easily drawn up by the plant. The water provides support and the minerals provide nourishment so that the plant survives for a longer period of time.

Below is a photo diary of a test carried out using water from the farm's bore. One vase of roses was placed in water that had been drawn from a bore (well) with a Halcyan Water Conditioner attached and the other vase was straight, untreated bore water.

(Note: in Australia the Halcyan is branded Turbu-Flow but is exactly the same device)



The fancy water vases are prepared for the experiment. The left container has Turbu-Flow treated water and the right container has untreated bore water. You can notice the colour difference immediately.



Freshly cut roses are taken straight from the greenhouse and placed directly into the containers.

Left – untreated

Right – Turbu-Flow treated water



After 3 Days

The roses have opened and it is already evident that the blooms on the left (untreated water) are wilting. Notice the darker, dropping leaves as well as the stems being more limp.



After 7 Days

The roses in the untreated water on the left are already wilting and shrivelling up, whereas the roses in the Turbu-Flow treated water are just as fresh and beautiful as on day 2!

The Results

Using irrigation water that is treated by a Halcyan Water Conditioner enables all plant stock to experience full growth for maximum quality which also means that

- the irrigation system will operate at full capacity without the inhibition of scale
- the grower can lower his maintenance costs and increase his stock prices.

When Halcyan treated water is used in the hydration formula in preparation for a long journey it will

- lower post harvest care
- inhibit 'bent neck' in flower stems,
- ...and so lower stock losses.