



Anil Ranwala, PhD.
Chief Scientist

Results of Vase Life Tests with Floralife® Premium Rose Flower Food

Background

The rose continues to be one of the most popular fresh cut flowers in the world. Proper postharvest care and handling is critical for obtaining optimum vase life, flower opening and petal color. The use of fresh cut flower food after harvest plays an important role in the performance of roses, aiding in the freshness and life of a flower. Floralife, Inc. has done extensive postharvest research on various aspects of roses and introduced a new flower food specifically formulated for roses, Floralife® Premium Rose Flower Food. It is available both as a powder and concentrated liquid.

Research

At the Floralife Laboratory, we conducted an evaluation of the efficacy of the new Floralife® Premium Rose Flower Food product compared to our all-purpose Floralife Crystal Clear® flower food, and plain tap water. We tested 10 different rose varieties, obtaining uniform flower stems of each variety from commercial sources for the experiment. Each flower stem was re-cut and foliage that would be below the solution level was removed. Stems were placed in vases each containing 1 Liter of the various flower food solution or plain water. Flowers were held in an interior evaluation room (68 - 70° F / 20 - 21° C; 12 hrs. light) to monitor vase life performance.

Floralife® Premium Rose Food

Rose Variety	Vase life (# days)		
	Water	Floralife Crystal Clear® Flower Food	Floralife® Premium Rose Flower Food
Charlotte	5.0	9.9	13.9
Orlando	7.2	11.3	13.6
Sunny Sher	5.4	10.6	12.2
Viva	4.8	8.7	9.0
Freedom	6.0	9.4	10.2
Sacha	6.7	14.7	15.7
Prophyta	10.5	18.9	23.8
Lindsey	6.7	7.3	9.4
Eskimo	7.5	12.7	14.6
Grand Prix	4.9	9.1	14.3
Average	6.5	11.3	13.7



Water

Floralife Crystal Clear®
Flower Food

Floralife® Premium Rose
Flower Food

Photo taken on Experiment Day 10

Conclusion

Both the all-purpose and rose specific type flower food performed better than plain water for all rose flower varieties. On average, using Floralife® Premium Rose Flower Food was better than using plain water by 110% and all-purpose Floralife Crystal Clear® Flower Food by 21%.