

**Vitec 4000** is a blended formulation, which is a highly effective threshold scale inhibitor. Low application rates of Vitec 4000 are required to keep large amounts of scalants in solution. Vitec 4000 is unique in that it inhibits silica scaling at higher concentrations than typical antiscalants. This feature may allow increased RO system recoveries in feedwater containing high levels of silica. It retains its performance even in RO concentrate streams containing up to 4 ppm of ferrous iron.

### **Performance**

Vitec 4000 antiscalant offers a variety of performance and application benefits:

Protects membranes from silica scale when used in accordance with the published limitations of 250 ppm of SiO<sub>2</sub> in the RO concentrate.

Powerful inhibitor against RO membrane scaling caused by the following:

Calcium Carbonate (CaCO<sub>3</sub>)

**Langelier Saturation Index (LSI) > 2.5** 

Barium Sulphate (BaSO<sub>4</sub>)

105 times Saturation

Calcium Sulphate (CaSO<sub>4</sub>)

3.5 times Saturation

**Strontium Sulphate (SrSO<sub>4</sub>)** 

20 times Saturation

Calcium Fluoride (CaF)

1000 times Saturation

- Dispersant qualities reduce colloid and silt fouling of membrane surfaces.
- Compatible with all membrane types.
- Effective over a wide pH range.

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# Dosing:

Establishing the most efficient dose rate is dependent on a number of factors, including feedwater quality, system operating recovery and membrane chemistry. Typical application rates range between 2-5 ppm. For accurate dosing recommendation contact your Avista representative, or use the Avista Advisor.

For maximum effectiveness, Vitec 4000 should be added prior to the cartridge filter housing.

# Dilution:

The maximum dilution for Vitec 4000 should not exceed 10%. If further dilution is required then contact your Avista representative for advice.

#### Packaging:

Vitec 4000 is available in 23kg pails, 230kg drums and 1100kg intermediate bulk containers. Other packaging is available on request.

#### **Properties:**

Appearance: Light Amber

Liquid

pH (10% dilution): 4.5 - 5.5

Specific Gravity @ 25°C 1.1 – 1.15