

### Performance:

Vitec® 2000 antiscalant offers a variety of critical performance and application benefits:

- Powerful inhibitor against a variety of carbonate and sulfate scale:

|                   |                       |
|-------------------|-----------------------|
| CaCO <sub>3</sub> | CCPP>900<br>(LSI>3.0) |
| CaSO <sub>4</sub> | 3.5xKsp               |
| BaSO <sub>4</sub> | 105 x Ksp             |
| SrSO <sub>4</sub> | 35 x Ksp              |
| CaF               | 1000 x Ksp            |
| SiO <sub>2</sub>  | 120ppm                |

- Highly effective in a wide range of feedwater types and pH ranges.
- Dispersant qualities reduce colloidal and silt fouling of membrane surfaces.
- High tolerance for ferrous ion.
- Excellent dispersant for alum particles
- Compatible with all leading RO membranes

**Vitec® 2000** is a proprietary liquid antiscalant/dispersant designed to inhibit scale and disperse colloidal particles in cellulose acetate and thinfilm membrane separation systems.

Vitec® 2000 can be injected neat or diluted and can be used in a wide array of feedwater sources including surface or well waters. Dosages can be determined using the **Avista Advisor** program and are based on feedwater analysis and specific water treatment system data.

### Application:

Optimum Vitec® 2000 performance is achieved when the chemical is injected downstream of multimedia filters and upstream of cartridge filters. In systems using sulfuric acid (H<sub>2</sub>SO<sub>4</sub>), the best results are obtained when the acid is injected far enough upstream to ensure it is adequately mixed prior to the Vitec® 2000 injection point.

### Dosing Guidelines:

The typical dosage range is between 2 to 5 ppm. A site-specific dose can be determined using the Avista Advisor computer program.

Like any injected chemical, over or underdosing may cause unnecessary membrane system fouling. Please contact the Avista customer service department for customized dosing instructions.

### Dilution:

The maximum dilution for Vitec® 2000 should not exceed 10%. This guideline will protect the effectiveness of the internal bacteriostat, which inhibits bacterial growth within the drum and feed tank.

### Packaging and Storage:

Standard regional pack sizes are listed below. Custom packaging can be provided worldwide to meet customer needs. Information on drumless or bulk tanker delivery is available on request.

| Specifications         |                    |
|------------------------|--------------------|
| Appearance:            | Light amber liquid |
| pH (10% solution):     | 4.5 –5.5           |
| Specific Gravity@20°C: | 1.15±0.05          |

| Packaging Formats | Americas | EMEA    |
|-------------------|----------|---------|
| Pails             | 45 lbs   | 23 kg   |
| Drums             | 500 lbs  | 230 kg  |
| IBC's (totes)     | 2500 lbs | 1100 kg |

