

# Pureflux SW

Membrane Antiscalant for Seawater RO

## ADVANTAGES

- A broad spectrum antiscalant designed to inhibit inorganic scale formation in SWRO plants operating at a feed pH < 8.7
- Eliminates the need for acid dosing to inhibit scale formation
- Effectively inhibits calcium carbonate, calcium sulfate, calcium fluoride, magnesium hydroxide, barium sulfate, strontium sulfate and other inorganic scales
- Stabilizes metal ions to prevent metal oxides precipitation and disperses existing iron oxide particles
- Disperses colloidal particles to maintain a clean membrane surface
- Environmentally compatible, especially where discharge of waste into the environment is a concern
- Certified by NSF to NSF/ ANSI Standard 60

## TYPICAL PROPERTIES

|                     |                                   |
|---------------------|-----------------------------------|
| Appearance          | Clear, colorless to yellow liquid |
| Odor                | Characteristic                    |
| Solubility in water | Complete                          |
| pH (as is) @ 25°C   | 2 - 3                             |
| Specific Gravity    | 1.04 ± 0.05                       |

## PACKAGING

5 gallon pails, 55 gallon non-returnable plastic drums, 275 gallon totes and bulk shipments

## SAFETY & HANDLING

Store in a cool, dry place. In accordance with good safety practice, handle with care and avoid contact with eyes and prolonged or repeated contact with skin. For more information, see the Safety Data Sheet provided with this product.

## CHEMICAL FEEDING AND CONTROL

### Injection:

Pureflux SW should be injected continuously into the RO feedwater line, always downstream of multimedia filters, and preferably downstream of the cartridge filters in the presence of a static mixer. In the absence of a static mixer, dosing upstream of the cartridge filters will serve as a substitute to improve mixing.

### Dosing:

The dosage required to inhibit scale formation will typically be in the range of 1- 5 ppm, depending on feed water quality and system operating parameters. Dosage can be determined using Proton® membrane antiscalant projection software, or can be provided by an AWC technical representative.

### Dilution:

Pureflux SW is designed to be fed neat. However, if the minimum output of the dosing pump exceeds the required dosage, then dilution will be necessary. For product dilution, **always use water that is free of any detectable hardness** – deionized water or RO permeate are preferred due to their higher purity, but softened water is also acceptable.

This product contains a preservative to prevent biological growth in the feed tank. Dilution in excess of 10X will impact the potency of the preservative. If dilution beyond 10X is unavoidable, it is recommended to replace the diluted product frequently, preferably every 7 – 10 days.

