

Protec RO™

Antiscalant/Dispersant/Antifoulant

Protec RO™ is a highly effective antifoulant that is specially formulated for feedwaters with high potential for fouling by colloidal particles and organic matter. It is effective over a wide range of concentrations. Use of this product is recommended for reducing the operating and capital costs of reverse osmosis (RO), nanofiltration (NF) and ultrafiltration (UF) systems. Protec RO™ may be used as an anti-deposition agent for silt and colloidal organic matter, making it an ideal antifoulant for sea, river, and lake water sources. Protective and flux enhancing activity reduces the rate of fouling, and enhances the ease of subsequent cleanings.

Product Features:

1. Inhibits deposition of organic colloidal particles.
2. Compatible with RO, NF, and UF membranes from all major manufacturers.
3. Certified under ANSI/NSF Standard 60 for drinking water production.
4. Effective in feedwaters with pH range 4.0–12.0.
5. Inhibits anchoring of microorganisms on membrane surfaces.
6. Environmentally friendly.
7. Food-grade additive.

SPECIFICATIONS	
Appearance:	Clear, straw colored solution.
pH:	5.2 ± 1.2
Specific Gravity:	1.03 ± 0.02

SPECIFICATIONS	
Appearance:	Yellow Powder
pH: (1% water)	Approx. 5.0
Mix Ratio	1 lb : 1.1 gal water

Application:

Protec RO™ should be injected into the feed-stream prior to the static mixer and cartridge filter. Effective pH range is 4–12. If frozen, liquid or solutions may be thawed and mixed before use. Best used within 12 months.

Dosing Recommendations:

Dosage range is 1–100 mg/L (liquid), and 0.1–10 mg/L (powder). By monitoring the concentrate stream and trend charts, optimal dosage can be achieved for the control of colloidal particles in feedwaters of microbial, plant, or inorganic sources, and organic compounds in industrial process or waste streams. Acceptable as an additive in food-grade production.

Packaging:

Liquid: 5 gal, 55 gal
Powder: 4 lbs, 45 lbs, 55 lbs, 110 lbs

*SDS available at kingleetechnologies.com

