

Prime - 8500

Antiscalant and Antifoulant for Membrane Systems

Description

PKP-8500 is an aqueous solution of a specialised polycarboxylic acid, highly effective in controlling the deposition of inorganic scale forming salts and particulate fouling on membrane surfaces.

- Suitable for use in Reverse Osmosis(RO) and NanoFiltration(NF) membranes
- Allows high recovery rates at elevated pH levels in second pass recovery systems
- Compatible with all polyamide membranes
- Approved for use in drinking water applications

Inhibits common scales

- Calcium carbonate/ sulphate
- Silica
- Iron/manganese
- Barium/Strontium sulphate

Application

PKP-8500 is an aqueous solution of an organic acid and as such is corrosive in its concentrated form. Corrosion resistant dosing equipment should therefore be used. Examples of suitable materials are 316L stainless steel, or plastics such as GRP, PVC and PE.

The recommended injection point is into the feed water downstream of any filtration equipment and cartridge filters.

Usage

PKP-8500 is miscible with water in all proportions. It may be applied as the neat product, or as a solution in permeate. Minimum dosing solution strength of 10% w/w is recommended. PKP-8500 should be dosed continuously and proportionately to the feed water flow, to maintain the recommended dose level.

The dose level required is dependent on the quality of the feed water and the saturation indices of the various scales forming species

present in the concentrated brine. Proprietary computer software is used to calculate scaling indices and calculate optimum system recovery. Dose level projections and recommendations are available on request.

Physical Properties

Appearance Pale yellow

pH 8.3 to 8.7

Specific gravity 1.32 to 1.34

Freezing point range < -5°C

Further details are available in the safety data sheet.