



## Spectraguard™ 105

SpectraGuard™ 105 is a concentrated liquid antiscalant/dispersant that has been proven as a superior pretreatment in RO feed waters. With its ability to handle high levels of carbonate, sulfate and silica scale, as well as low concentrations of iron, SpectraGuard™ 105 ensures stable performance with complete control of the feed water chemistry.

### Features / Benefits

- Phosphate-free formula reduces negative impact on the environment
- Stable molecular structure maintains integrity in high pH, high temperature and high salinity applications
- Classified for use in membrane systems producing drinking water (ANSI/NSF Standard 60)

### Uses

- Control of calcium carbonate, calcium sulfate, barium sulfate, calcium fluoride, silica, and hydroxides of iron and aluminum
- Can be blended with other pretreatment formulations from Professional Water Technologies to reduce chemical dosing equipment

### Specifications

Appearance	Colorless / Amber
pH as supplied	1.80 - 2.80
Specific gravity	1.05 - 1.15



### Packaging

Pail: 5 gallon/18.9 liter

Tote: 275 gallon/1,040 liter

Drum: 55 gallon/208 liter

Bulk: available upon request

*For special packaging options, please contact PWT or your local distributor.*

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LIQUID REVERSE OSMOSIS ANTISCALANT

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## General Mixing & Application Instructions for SpectraGuard™ 105

1. Typical sea water dose rates are 0.04 to 0.1 mg/l, and typical brackish water dose rates are 0.15 to 0.6 mg/l.
2. Contact Professional Water Technologies™ or your local distributor for a custom chemical dosing recommendation.
3. We use ProDose to determine your scaling potential and recommended chemical dosing levels.

## ProDose XPRT™ – Scaling Prediction Software

ProDose XPRT™ uses the most accurate scaling prediction calculations available to accurately determine effective antiscalant dosage, and cleaning chemical usage. The user can enter multiple cases to study various operating conditions, directly enter concentrate analysis, and select the best PWT product and dosage for the application.

*ProDose XPRT™ is available upon request only. Please contact your PWT representative for more information.*

The screenshot displays the PWT ProDose software interface. At the top, there is a navigation bar with various parameters: UNITS (US), TEMPERATURE (Fahrenheit), PERMEATE FLOW (81.00), RECOVERY (75.0%), ANTISCALANT (SpectraGuard Liquid), DOSAGE (2.95 PPM), SOURCE (Well Water), PROJECT NAME (Project 1), and CASE (1). The main interface is divided into several sections: PROJECT INFORMATION (with a sidebar menu for PROJECT INFORMATION, WATER QUALITY, SYSTEM INFORMATION, CHEMICAL SELECTION, CALCULATIONS, and REPORT), OVERVIEW (with fields for CLIENT NAME: City of San Diego, PROJECT NAME: Project 1, LOCATION, PREPARED BY, DATE: 5/1/2016, and WATER TYPE: Well Water), MEASUREMENTS (with PRESET UNITS: CGS, Metric, U.S., TEMPERATURE: Deg F, FLOW RATES: Gal/min, and MASS UNITS: lb), COMMENTS (OPTIONAL), and TOTAL CASES (1 AVAILABLE) (with a table showing Case 1, Modified Date 5/27/2016, and a Selected Case Description field).



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