



BioGuard™ 100 is a ready for use chemical pretreatment developed to reduce biological cell adhesion to the membrane surface and other ancillary equipment. BioGuard™ 100's ability to effectively disperse biological foulants present in feed waters makes it a great addition to any pretreatment regimen. Ideal for systems plagued with biological fouling issues, BioGuard™ 100 ensures stable performance with superior 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
- Reduces fouling from bacterial byproducts and cell fragments
- Classified for use in membrane systems producing drinking water (ANSI / NSF Standard 60)

Uses

- For use on reverse osmosis (RO) and nano-filtration (NF) membranes
- Can be blended with other pretreatment formulations from Professional Water Technologies™ to reduce chemical dosing equipment

Specifications

Appearance	Clear liquid
pH	2.00 – 3.00
Density (kg/liter)	1.00 – 1.10



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.

BioGuard™ 100
LIQUID BIO-DISPERSANT

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General Mixing & Application Instructions for BioGuard™ 100

1. Typical dose rates are 2.0 to 6.0 mg/l.
2. Call Professional Water Technologies™ or your local distributor for custom chemical dosing recommendation.

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 the PWT logo and several tabs: 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). Below this is a sidebar with icons for PROJECT INFORMATION, WATER QUALITY, SYSTEM INFORMATION, CHEMICAL SELECTION, CALCULATIONS, and REPORT. The main content area is divided into several sections: OVERVIEW (with fields for CLIENT NAME, PROJECT NAME, LOCATION, PREPARED BY, DATE, and WATER TYPE), MEASUREMENTS (with preset units, temperature, flow rates, and mass units), COMMENTS (OPTIONAL), and TOTAL CASES (1 AVAILABLE). The TOTAL CASES section shows a table with one case, ID 1, modified on 5/27/2016.

Cases	Modified Date
1	5/27/2016