



NLR 707 – MEMBRANE Anti-Foulant

FOULING

The loss of membrane performance due to fouling by organic and biological components is common to many UF, NF and RO membranes worldwide. This fouling can lead to reduced permeate flow, changes in rejection characteristics across the membrane system, increases in differential pressure and frequent membrane cleaning or replacement.

CLEANING

Keeping your membrane clean with regular cleaning routines or performing a heavy duty maintenance cleaning to recover the membranes are possible solutions to overcome the fouling.

The NLR-707 liquid membrane anti-foulant is designed to target biological foulants, organics, oil, grease, lignin, silica, calcium, and magnesium. This pretreatment chemical will inhibit fouling to maintain the membrane performance and extend the frequency of cleaning.

The NLR-707 cleaner contains both a unique blend of surfactants as well as chelating agents.

USAGE INSTRUCTIONS

Usage for your particular system may require an individualized procedure based on your type of foulants. However, the following is a basic procedure that should work for a broad range of situations.

NLR-707 is a concentrated pretreatment chemical that should be used neat to the proper concentration. The anti-foulant solution should be kept in a clean tank or portable tote. You should use an appropriate metering pump to deliver the correct amount of anti-foulant to the feed tank or

feed line prior to filtration. Here is a table outlining the volumes to use for various volumes.

Concentration	Usage	Volume of Water
25 ppm	0.15 GPH	100 gpm
50 ppm	0.30 GPH	100 gpm
100 ppm	0.60 GPH	100 gpm
200 ppm	1.2 GPH	100 gpm
500 ppm	3.0 GPH	100 gpm

The exact flow rate will depend on the size of your membrane module. YOU MAY NEED TO VARY THE CONCENTRATION TO FIND THE OPTIMUM AMOUNT TO ADD.

The more that is used as pretreatment, the longer you can run between full chemical cleanings. This is another parameter to consider when optimizing your process.

PACKAGING

NLR-707 is shipped as a liquid in 5-gallon plastic containers, 55-gallon drums, or 260 gallon totes. The shelf life when stored unopened indoors at a temperature between 5°C and 30°C is one year from its date of manufacture. For specific pricing and delivery information, please contact New Logic.

HANDLING

NLR-707 is an anti-foulant chemical and should not be mixed with other cleaners unless specified by the vendor. Mixing NLR-707 with acids may cause precipitation and mixing with chlorine-based cleaners may cause toxic gases.

Wear chemical resistant gloves when you expect long, constant exposure. It is also a good practice to wear safety glasses or goggles when using this product.