



SERIES 215ML/22

MAT-REINFORCED LINING SYSTEM

FOR MEMBRANE FILTER TANKS

With the advancement of membrane filter technology, many treatment facilities are moving to ultrafiltration or microfiltration systems, whether for raw water or for wastewater in the form of an ultrafiltration membrane or membrane bioreactor (MBR). These systems provide a high quality effluent with a much smaller plant footprint. Immersion-type filters which require tanks or basins are a popular choice due to their increased efficiency and ease of maintenance. However, the processes involved with operating and maintaining the filters, whether in water or wastewater treatment, can subject concrete tank linings to a unique set of demands. Tnemec, a leader in protective coatings for water and wastewater treatment, developed the Series 215ML/22 Mat-Reinforced Lining System to protect concrete from aggressive cleaning methods, impact, and thermal shock from elevated backwash/backflush temperatures, while ensuring safe contact with drinking water.

THE SYSTEM

Every coating in Tnemec's Series 215ML/22 Mat-Reinforced Chemical-Resistant Lining System is NSF/ANSI Standard 61-certified—from the primer, to the fiberglass-reinforced intermediate coat, to the topcoat. The lining consists of Series N140F Pota-Pox Plus, a penetrating concrete primer, Series 215 Epoxy Surfacer, a 100% solids epoxy bedding coat, with an embedded $\frac{3}{4}$ ounce fiberglass mat, and a topcoat of Series 22 Epoxoline. This high performance lining system was developed specifically to provide long-lasting performance in both membrane filtration and MBR process tanks.

THE BENEFITS

- » *Penetrating concrete primer*
- » *100% solids epoxy basecoat and topcoat*
- » *Fiberglass reinforcement*
- » *Chemical and permeation resistant*
- » *Resistant to impact and abrasion from cassette movement*
- » *Resistant to thermal shock from elevated temperature backwashing or backflushing*
- » *100% NSF/ANSI Standard 61 certified*



Primer
Series N140F Pota-Pox® Plus
3-6 Mils DFT

Bedding Coat
Series 215 Surfacing Epoxy
60-80 Mils DFT

Reinforcement
Series 211-215 Fiberglass Mat

Saturant Coat
Series 22 Epoxoline

Topcoat
Series 22 Epoxoline
20-30 Mils DFT

