



STATE OF WISCONSIN
Department of Agriculture,
Trade and Consumer Protection

Approval # 20160009

Bureau of Weights and Measures
Storage Tank Regulation
P.O. Box 7837
Madison, WI 53707-7837

Wisconsin ATCP 93 Material Approval

Equipment: Seaman 9832 XR-5 G Geomembrane Dike
Liner

Manufacturer: Seaman Corporation
1000 Venture Blvd.
Wooster, OH 44691

Expiration of Approval: December 31, 2019

SCOPE OF EVALUATION

The 9832 XR-5 G geomembrane dike liner as manufactured by the Seaman Corporation has been evaluated as a synthetic dike liner for aboveground tanks in accordance with **s. ATCP 93.130(3)(d), s. ATCP 93.350(5), s. ATCP 93.420(2), and NFPA 30 section 22.11.**

This Approval has been based upon evaluation of information submitted by the manufacturer and third party evaluation and is considered to be confidential. Specific information relating to qualifying the information submitted should be made to the manufacturer or submitter.

This evaluation summary is condensed to provide the specific installation and operational parameters necessary to maintain the subject systems in compliance with the Wisconsin Administrative Code - ATCP 93.

DESCRIPTION AND USE

The 9832 XR-5 G geomembrane dike liner manufactured by the Seaman Corporation is made of 36 mil (nominal thickness) Ethylene Interpolymer Alloy (EIA), PVC resin, and finished with a polyester fabric. Seams are thermal welded to be as strong as the liner membrane.

When installed over compacted soil, the ends of the liner are anchored in a trench. The trench must have rounded edges to avoid sharp bends in the liner.

Mechanical attachment to concrete may be achieved by using stainless steel or aluminum batten strips and neoprene gaskets. A silicon seal provides a liquid-tight attachment between gaskets and battens.

Seaman Corporation 9832 XR-5 G geomembrane dike liners are approved for use in the State of Wisconsin for petroleum products excluding alternative motor fuels.

TESTS AND RESULTS

Seaman Corporation 9832 XR-5 G geomembrane liners were immersion tested in crude oil, jet fuel, diesel fuel, kerosene and naphtha. In all cases, the physical property changes were within acceptable limits established by the department.

LIMITATIONS / CONDITIONS OF APPROVAL


- Seaman Corporation 98332 XR-5 G geomembrane liner has not been immersion tested in ethanol, ethanol blended fuel, bio-diesel, or any other alternative motor fuel; and is therefore not approved to be used in conjunction with these products.
- Seaman Corporation 98332 XR-5 G geomembrane dike liners, with a nominal thickness of 36 mil are approved as meeting the requirements of ATCP 93.130(3)(d)(2) when installed and tested in accordance with manufacturer's specifications.
- Field seams shall be orientated down a slope rather than across a slope.
- All installation, repair, and maintenance of the dike liner shall be performed in accordance with the manufacturer's procedures, recommendations, and all applicable codes. In addition, a qualified technician shall conduct all necessary maintenance and repair procedures as recommended by the manufacturer to assure continued and proper operation of the liner.

This approval will be valid through December 31, 2019, unless manufacturing modifications are made to the product or a re-examination is deemed necessary by the department. The Wisconsin Material Approval Number must be provided when plans that include this product are submitted for review.


DISCLAIMER

The Department is in no way endorsing or advertising this product. This approval addresses only the specified applications for the product and does not waive any code requirement unless specified in this document.

Effective Date: December 1, 2016

Reviewed by: 
Erik Otterson
Environmental Engineering Specialist
Bureau of Weights and Measures
Storage Tank Regulation

Date: 12/2/16

Approved by: 
Greg Bareja, P. E.
Section Chief
Bureau of Weights and Measures
Storage Tank Regulation

Date: 12/2/16