



Approval # 20000014

Environmental & Regulatory Services Division  
Bureau of Storage Tank Regulation  
201 West Washington Avenue  
P.O. Box 7837  
Madison, WI 53707-7837

## Wisconsin COMM 10 Material Approval

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**Equipment** REA 303 Dike Liners

**Manufacturer** JBT & Associates, Inc.  
31471 Utica Road  
Fraser, MI 48026

**Expiration of Approval:** December 31, 2006

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### SCOPE OF EVALUATION

The REA 303 synthetic dike liner manufactured by JBT & Associates Inc. has been evaluated in accordance with **section COMM 10.345(1)(e)** of the Wisconsin Administrative Flammable and Combustible Liquids Code.

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

This evaluation summary is condensed to provide the specific installation and operation parameters necessary to maintain the subject systems in compliance with the Wisconsin Administrative Code – Comm 10.

### DESCRIPTION AND USE

REA 303 is a two-component elastomeric material that is applied by a pressure spray over

a supporting concrete, steel or earthen substrate base to become an inert seamless solid lining material.

REA 303 is a non-combustible with an auto-ignition temperature range of 505 C to 530 C. (941 F to 986 F), however, documentation was not supplied that demonstrated a specific fire rating. REA 303 can be walked or driven on, but thickness of lining, weight and force of contact, and substrate base material will influence integrity.

Before installing the liner sub-grade surfaces shall be maintained clean, smooth and dry. Sub-grade for all earthen reservoir surfaces shall be compacted to a minimum of 95% of a dry density. Installation is accomplished in the field by spraying on the desired mil thickness with specific heated plural component equipment.

### **TESTS AND RESULTS**

Magill Laboratories performed mechanical tests on samples of coated fabric before and after a 7 day immersion in Gasoline, Jet Fuel and Ethanol at 20 degrees C, according to Wisconsin evaluation criteria for flexible dike liners. In all cases, the test results were within the acceptability limits established by the department.

### **LIMITATIONS OF APPROVAL**

The liners shall be installed in accordance with manufacturer's instructions and **COMM 10.345 (1) (e)**.

For bulk petroleum storage containment the liner must be applied at the mil thickness described in the following table:

<b>Base material</b>	<b>Thickness in mils</b>
Concrete	60
Steel	60
Earthen	80

REA 303 must be applied at a thickness of 100 mils over the area that will be directly under the tank.

For bulk chemical storage containment the liner must be applied as recommended after consulting with the manufacture to address compatibility issues.

When placed over earthen base material the liner shall not be exposed since it has not been tested for fire resistance. A proper protection for the liner over earthen base material will be the soil covering required under section **COMM 10.345 (1) (e) 2**.

Releases of product shall be addressed in accordance with the procedures specified in parts 5 and 6 of **COMM 10** subchapter **VI**. The liner or portions of the liner that came in contact with product shall be replaced when determined to be necessary as a part of the release re-mediation.

Tank(s) shall be elevated above the containment area floor grade by construction of a ring-wall, elevated pad or similar elevation construction. Tank foundations shall be designed to minimize the possibility of uneven or excessive settling. Tank foundation designs and any discontinuities in the liner within the diked area shall be shown on plans including the method for assuring an adequate product-tight barrier.

All installation, repair and maintenance of the dike liner shall be performed in accordance with the manufacturer's recommendation and all applicable codes. In addition, a qualified technician shall conduct all necessary maintenance and calibration procedures as recommended by the manufacturer to assure continued and proper operation of the liner. Inspection must be conducted annually by a qualified technician and all respective documents maintained on site.

This approval will be valid through December 31, 2006, 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 not specified in this document.

Reviewed by:   
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