



**FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION**

BOB MARTINEZ CENTER
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400

RICK SCOTT
GOVERNOR

CARLOS LOPEZ-CANTERA
LT. GOVERNOR

CLIFFORD D. WILSON III
INTERIM SECRETARY

VIA ELECTRONIC MAIL

hstrathman@armorthane.com

Mr. Hank Strathman
ArmorThane USA Inc.
2660 North Eastgate Avenue
Springfield MO 65803

Subject: Approval of the ArmorThane USA Inc.'s EnviroThane Polyurea Coating.
File No. EQ-835

Dear Mr. Strathman:

The Office of District and Business Support has concluded its review of the Equipment Approval request dated November 19, 2014, that was submitted for the ArmorThane USA Inc.'s EnviroThane Coating, pursuant to Rules 62-762.501(1)(e)3., and 62-762.851(2), Florida Administrative Code (F.A.C.). The ArmorThane USA Inc.'s EnviroThane Coating is a polyurea coating for secondary containment systems. The coating may be used on seamless concrete surfaces.

Based on the information provided by ArmorThane USA Inc., the EnviroThane Coating provide environmental protection substantially equivalent to that provided by compliance with the requirements established in Rule 62-762.501(1)(e)3., F.A.C. The ArmorThane USA Inc.'s EnviroThane Coating may be used as surface coating for secondary containment systems associated with aboveground or underground storage tank systems.

Pursuant to Rule 62-762.851(2), F.A.C., the request for the use of the ArmorThane USA Inc.'s EnviroThane Coating is approved in the State of Florida as a surface coating for tanks and secondary containment systems associated with aboveground or underground storage tank systems. The surface preparation and application procedures for the ArmorThane USA Inc.'s EnviroThane Coating shall be made in accordance with the manufacturer's recommendations.

Please be advised that the above referenced DEP rules are subject to change. If the above rule standards are modified in the future, this order may be modified or rescinded for future upgrades and installations. Additionally, if the product(s) show a consistent pattern of failure(s), and therefore does not provide substantially equivalent environmental protection, the Department may rescind this order.

The Department's Order shall become final unless a timely petition for an administrative hearing is filed under sections 120.569 and 120.57, F.S., within **21** days of receipt of this Order. Persons who have filed such a petition may seek to mediate the dispute and choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement. The procedures for petitioning a hearing and pursuing mediation are set forth below.

Persons affected by this Order have the following options:

- A. If you choose to accept the Department's decision regarding the Order, you do not have to do anything. This Order is final and effective as of the date on the top of the first page of this Order.
- B. If you choose to challenge the decision, you may do the following:
 - 1. File a request for an extension of time to file a petition for hearing with the Department's Agency Clerk in the Office of General Counsel within **21** days of receipt of this Order. This request should be made if you wish to meet with the Department in an attempt to resolve any disputes without first filing a petition for hearing or negotiate an agreement to mediate; or
 - 2. File a petition for administrative hearing with the Department's Agency Clerk in the Office of General Counsel within **21** days of receipt of this Order.

In addition to requesting an administrative hearing, any petitioner may elect to pursue mediation under Section 120.573, F.S., and must negotiate an agreement to mediate within **10** days after the deadline for filing a petition.

How to Request an Extension of Time to File a Petition for Hearing

For good cause shown, pursuant to Rule 62-110.106(4), F.A.C., the Department may grant a request for an extension of time to file a petition for hearing. Such a request must be filed (received) by the Agency Clerk in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000, within **21** days of receipt of this Order. Petitioner, if different from the applicant, shall mail a copy of the request to the applicant at the time of filing. Failure to file a petition within this time period shall waive the right of anyone who may request an administrative hearing under Sections 120.569 and 120.57, F.S.

How to File a Petition for Administrative Hearing

A person whose substantial interests are affected by this Order may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) by the Agency Clerk in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, MS 35, Tallahassee, Florida, 32399-3000, within **21** days of receipt of this Order. Petitioner, if different from the applicant shall mail a copy of the petition to the applicant at the time of filing. Failure to file a petition within this time period shall waive the right of anyone who may request an administrative hearing under Sections 120.569 and 120.57, F.S.

Pursuant to Subsection 120.569(2), F.S., and Rule 28-106.201, F.A.C., a petition for administrative hearing shall contain the following information.

- a) The name, address, and telephone number of each petitioner; the name, address, and telephone number of the petitioner's representative, if any, the site owner's name and address, if different from the petitioner, the DEP facility number, and the name and address of the facility;
- b) A statement of when and how the petitioner received notice of the Department's action or proposed action;
- c) An explanation of how each petitioner's substantial interests are or will be affected by the Department's action or proposed action;
- d) A statement of the disputed issues of material fact, or a statement that there are no disputed facts;

- e) A concise statement of the ultimate facts alleged, including a statement of the specific facts the petitioner contends warrant reversal or modification of the Department's action or proposed action;
- f) A statement of the specific rules or statutes the petitioner contends requires reversal or modification of the Department's action or proposed action; and
- g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the Department to take with respect to the Department's action or proposed action.

How to Pursue Mediation

In addition to requesting an administrative hearing, any petitioner may elect to pursue mediation. The election may be accomplished by filing with the Department a mediation agreement with all parties to the proceeding (i.e., the applicant, the Department, and any person who has filed a timely and sufficient petition for hearing). The agreement must contain all the information required by Rule 28-106.404, F.A.C. The agreement, signed by all parties, must be received by the Agency Clerk in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000 within **10** days after the deadline for filing a petition, as set forth above. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement.

Pursuant to Rule 28-106.404, F.A.C., an agreement to mediate must include the following.

- (i) The name, address, and telephone number of the persons who may attend the mediation, (also the DEP facility number, the name and address of the facility if applicable);
- (ii) The name, address, and telephone number of the mediator agreed to by the parties;
- (iii) How the costs and fees associated with the mediation will be allocated (the Department will not pay any of the costs of mediation);
- (iv) The agreement of the parties regarding the confidentiality of discussions and documents introduced during mediation to the extent authorized by law;
- (v) The date, time, and place of the first mediation session;
- (vi) The name of the party's representative who shall have authority to settle or recommend settlement; and
- (vii) The signature of the parties.

As provided in Section 120.573, F.S., the timely agreement of all parties to mediate will toll the time limitations imposed by Sections 120.569 and 120.57, F.S., for holding an administrative hearing and issuing a final order. Unless otherwise agreed by the parties, the mediation must be concluded within sixty days of the execution of the agreement. If mediation results in settlement of the administrative dispute, the Department must enter a final order incorporating the agreement of the parties. Persons seeking to protect their substantial interests that would be affected by such a modified final decision must file their petitions within **21** days of receipt of this notice, or they shall be deemed to have waived their right to a proceeding under Sections 120.569 and 120.57, F.S. If mediation terminates without settlement of the dispute, the Department shall notify all parties in writing that the administrative hearing processes under Sections 120.569 and 120.57, F.S., are resumed.

This Order is final and effective as of the date it is clerked and filed (see page 5). Timely filing a petition for administrative hearing postpones the date this Order takes effect until the Department issues either a final order pursuant to an administrative hearing or mediation settlement.

Judicial Review

Any party to this Order has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the Agency Clerk of the Department in the Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within thirty days after this order is filed with the clerk of the Department (see below).

Questions

Any questions regarding the Department's review of your equipment approval should be directed to John Svec at (850)245-8845. Questions regarding legal issues should be referred to Rebecca Robinette, Office of General Counsel, at (850)245-2242. Contact with any of the above does not constitute a petition for administrative hearing, a request for a time extension to file a petition for hearing or an agreement to mediate.

Sincerely,



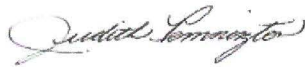
John A. Coates, PE, Assistant Division Director
Division of Waste Management

JAC/js

FILING AND ACKNOWLEDGMENT FILED,
on this date, pursuant to §120.52 Florida Statutes,
with the designated Department Clerk, receipt of
which is hereby acknowledged.

12/23/2014

X



Judith Pennington

Signed by: Penningto_JA

Clerk
(or Deputy Clerk)

Date



Technical Data Sheet

EnviroThane

Description

ArmorThane's EnviroThane is a 1:1, fast-set, spray applied two component polyurea coating. It is 100% solids and contains zero VOC's. EnviroThane is specifically designed for application to geotextile fabric to form a durable, flexible, seamless liner for use in secondary containment application. It is ideal for preventing leaks and containing spills of wastewater, fuels, and many other chemicals. EnviroThane has exceptional resistance to impact and chemical attack minimizing shrinkage.

Typical Physical Properties

Hardness, ASTM D-2240: 55/95 Shore D/A

Tear Strength, ASTM D-624: 570 pli

Permeability, ASTM E-96: 0.05 perms

Tack Free Time: 18-20 seconds

Application Temperature:

Substrate: 40-110°F (4-43°C)

Ambient: 40-110°F (4-43°C)

Tensile Strength, ASTM D-412: 3700 psi

Elongation, ASTM D-412: 450%

Gel Time: 10-12 seconds

Recoat Window @ 77°F (25°C): 24 hours

*Values obtained in laboratory setting for comparison purposes only and should not be considered specifications.

Mixing

Mix Ratio: 1A:1B

EnviroThane Side B Resin is made up of many components. As a result, prior to using the resins, it must be agitated so that all of the components mix thoroughly together. The rule of thumb for agitation is: Agitate one minute for every 1 US gallon of resin, or until mixed thoroughly. DO NOT OVERAGITATE. If resin is agitated for excessive periods, catalyst levels may be reduced through exposure to air. Therefore, only agitate enough to thoroughly mix the resin. Components within the resin will begin to settle after approximately 6 hours. Therefore, resin will need to be agitated every day it will be use.

EnviroThane Side A Iso requires no agitation.

Application Process

Application: EnviroThane is spray applied, using the ArmorThane HighLine 2511 or 4011 plural component, high pressure spray system. Material and hose heaters should be between 150-170°F (65-77°C). Pressure should be a minimum of 2400 psi. If the A and B Side pressures are not equal, stop spraying and examine equipment.

Pigmentation: EnviroThane Side B Resin requires that 100 grams of ArmorThane pigment be added to every one US gallon.

Surface Preparation: In general, coating performance and adhesion are directly proportional to surface preparation. Most failures in the performance of surface coatings can be attributed to poor surface preparation. Polyurea coatings



ArmorThane USA Inc.
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Springfield, MO, USA 65803
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ArmorThane Coatings Inc.
100, 10803 – 182 Street
Edmonton, AB, Canada T5S 1J5
Telephone: (780) 444-6200 Fax: (780) 444-9405

rely on the structural strength of the substrate to which they are applied. All surfaces must be free of dust, dirt, oil, grease, rust, corrosion, and other contaminants. When coating substrates previously used, it is important to consider the possibility of substrate absorption, which may affect the adhesion of the coating system, regardless of the surface preparation. ArmorThane recognizes the potential for unique substrates from one project to another. Refer to the technical bulletins in the ArmorThane Operations Manual concerning the preparation method for the substrate.

Consult with an ArmorThane Technical Representative for specific recommendations regarding application.

Packaging

EnviroThane comes in 100 gallon drum kits: 50 gallons Side A and 50 gallons Side B.

Safety and Handling

Do not handle until the Material Safety Data Sheets (MSDS) for each component have been read and understood. Regulations require that all employees be trained on Material Safety Data Sheets for all chemicals with which they come into contact.

Storage: EnviroThane should be stored in sealed containers between 60°F and 90°F (15°C and 32°C). Shelf life is 12 months under normal conditions.

Typical Uses

Wastewater containment
Fuel loading and unloading stations
Vapor barriers

Chemical containment and spill control
Water ponds
Landfills

Features

- | | |
|----------------------|-----------------------------------|
| ✓ Chemical Resistant | ✓ Good Flexibility and Elongation |
| ✓ Wetting | ✓ Fast Set |
| ✓ Zero VOC's | ✓ Minimal Shrinkage |

THIS PRODUCT IS FOR COMMERCIAL USE ONLY, AND SHOULD ONLY BE APPLIED BY TRAINED PERSONNEL. NOT FOR SALE OR USE BY GENERAL PUBLIC.



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The information is produced in good faith and is true to the best of our knowledge. No warranty or guarantee is given or implied. Use of this information is at the user's risk. Only qualified, trained employees are permitted in the application of ArmorThane products. Since there is a wide range and variety of applications for this product, it is impossible to assume responsibility for any errors in regard to application, coverage, workmanship, overspray, or injuries resulting from the use of EnviroThane.

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