

DESCRIPTION

ECOTITE™ DB ditch break foam is the best option for the diversion and control of water in sub-surface environments. Specially developed for pipeline and other below grade applications. It is a closed cell rigid foam with a density of 1.7 lbs/ft³. ECOTITE™ DB utilizes an all water blown blowing agent and has zero Ozone Depletion Potential (ODP) and zero Greenhouse Warming Potential (GWP)

TYPICAL APPLICATIONS

- Gas / Oil Industry.
- Industrial Applications.
- Mining.
- Agricultural Uses.

KEY FEATURES

- Has high structural & compressive strength providing strong inter-layer adhesion.
- Water blown foam producing low heat generation during application.
- Low odor.
- Faster reaction time.
- Allows ditch break walls to be built up quickly without a wide base.
- No HFC's or CFC's.
- Designed to be built-up in thickness without scorching or foam splitting.
- May be used in subterranean applications.
- Has high structural & compressive strength providing strong inter-layer adhesion.
- Attaches chemically to earth, rock, pipe, metal, tile, wood, etc.



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TYPICAL PHYSICAL PROPERTIES

(For components)

	COMPONENT A	COMPONENT B
Mixing ratio by volume	1	1
Shelf Life - Unopened Containers	12 months	6 months

(For cured material)

	TEST METHOD	RESULTS
Density	ASTM D1622	27.9 kg/m ³ (1.7 lbs/ft ³)
Compressive Strength	ASTM D1621	200 kPa
Tensile Strength	ASTM D1623	450 kPa
Fungi Resistance	ASTM G-21	Zero Rating
Air Permeation @ 75Pa	ASTM E2178	<0.02 L/s
Dimensional Stability, % Volume Change after 28 days	ASTM D2126	
80C, 50% RH		-1.17%
70C, 95% RH		-0.98%
-29C, 50% RH		-0.78%
Surface Burning Characteristics Flame Spread	CAN/ULC S-102	88
Surface Burning Characteristics Smoke Developed	CAN/ULC S-102	<500
Water Vapor Permeance	ASTM E-96	
50 mm sample (desiccant method)		160 ng/Pa.s.m ²
Sound Transmission Class	ASTM-90	Class 33
Colour		Amber

PROCESS SPECIFICATIONS

The system settings required to achieve quality spray foam application will vary depending on environmental and substrate conditions. The following recommended parameters will help ensure optimum foam quality.

Equipment pre-heater temperature		
Component A	110 – 140°F	43 – 60°C
Component B	110 – 140°F	43 – 60°C
Hose temperature	110 – 140°F	43 – 60°C
Static Spray pressure	1100 – 1400 PSI	76 – 96 Bar
Dynamic Spray pressure	1000 PSI Minimum	67 Bar Minimum

STORAGE

ECOTITE™ DB components should be stored in sealed containers at 18 – 29° C (65 – 85° F) in a dry area. Avoid exposure to freezing temperatures. Store on wooden pallets to avoid direct contact with the ground. Material in containers should be maintained at 18 – 29° C (65 – 85° F) while in use. Material temperature should be confirmed with a thermometer or an infrared gun.

PRECAUTIONS

Protect from exposure to moisture. Water will cause the “A” component (ISO) to generate carbon dioxide with resulting high pressure in closed containers.

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your Pinnacle representative or visit our website for current technical data and instructions.

PACKAGING

A set of ECOTITE™ DB consists of one (1) 208 Liter (55 gallon) drum of 'A' component and one (1) 208 Liter (55 gallon) drum of 'B' component. Net weight per set is 453.5 kg (1000 pounds).

TECHNICAL SUPPORT

We have a dedicated technical support team offering knowledgeable support for everything from preventative maintenance, equipment calibration and servicing through to coating and foam application advice. If you have any questions regarding the use of this product please call us toll free at 1-800-901-0088 or email us info@pinnaclewest.net.

ON-SITE TRAINING

Our on-site training programs provide the necessary equipment and application training, including the health and safety aspects, needed to apply a wide variety of products. The goal of our programs are to give the skills required to be a professional and productive installer.

SAFETY PRECAUTIONS

Health Considerations - Consult the Material Safety Data Sheets. This chemical system requires the use of proper safety equipment and procedures. Please follow the product MSDS for detailed information and handling guidelines. In addition to reading and understanding the MSDS, all contractors and applicators must use appropriate respiratory, skin and eye Personal Protective Equipment (PPE) when handling and processing polyurethane chemical systems. Consistent use of personal proper protective equipment to prevent exposure during spraying and within the 24 hour-period after spraying is completed is critical to eliminating the health hazard. As with all SPF systems, improper application techniques such as: excessive thickness of SPF, spraying into or under rising SPF and off-ratio material, potential results of improperly installed SPF include: dangerously high reaction temperatures that may result in fire and offensive odors that may or may not dissipate. Improperly installed SPF must be removed and replaced with properly installed materials. AIR INTAKE UNITS SHOULD BE SHUT DOWN AND VENTS SEALED DURING POLYURETHANE SPRAY APPLICATIONS.

WARRANTY

When installed properly in accordance with instructions, Pinnacle West Enterprises Inc. warrants that the properties of the product meet product specifications as outlined in this technical data sheet. Save and except any exclusions referenced in the warranty.

The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning the products and their uses, applications, storage and handling are only the opinion of Pinnacle West Enterprises Inc. Users should conduct their own tests to determine the suitability of these products for their own particular purposes and of the storage and handling methods herein suggested. The toxicity and risk characteristics of products distributed by Pinnacle West Enterprises Inc. will necessarily differ from the toxicity and risk characteristics developed when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors.