



ACRITECH™

ACRITECH™ is a chemical and water resistant polymer modified acrylic coating. Applied as a single component liquid, ACRITECH™ cures to give a flexible colored surface coating and is recommended as a top coat over PermaDri's Rubber Coat™ and Mine Coat™. *See below

FREE OF FLAMMABLE SOLVENTS · NON-TOXIC · WATER-BASED · EXCELLENT STRENGTH, ELASTICITY & ADHESION

PHYSICAL PROPERTIES (Liquid)

PROPERTY	TYPICAL RESULTS
Specific gravity	1.2
VOC	Contains no solvents
Color	multiple colors available
% Solids (wt)	65-68
Viscosity, Cps Brookfield	5000-8000
pH	8-11

PERFORMANCE (Cured Membrane)

PROPERTY	TYPICAL RESULTS
Chemical Resistance	Most organic and inorganic solutions including petroleum hydrocarbon products. Consult Chemical Resistance chart for further information.
Impact Resistance CGSN 37-GP-56 @ 73°F	168 in-lbs
Water tightness after impact	Pass (no leakage observed)
UV Resistance ASTM G155 250 hrs.	No deterioration of the film, >90% retention of original tensile strength
Tensile Strength, ASTM D412	1200 psi
Adhesion to Concrete ASTM C 907	450 psi
Low temperature mandrel @59°F	Passed
Hardness, Durometer Type 00	80-85
Type A	65-67
Type D	18-20
Elongation	>200%

COVERAGE

Cured Membrane Thickness (mils)	Coverage (gallons/100 sq. ft.)
20	2
40	4
60	6
80	8

USES

ACRITECH™ is recommended where a protective and colored finish with good flexible properties is needed. ACRITECH™ is also recommended where the surface requires protection from intermittent hydrocarbon or carbon spills. Applications include roof waterproofing; corrosion protection for storage and process tanks; piping, metal and wood structural features; and decorative surface finishes for decks and walkways.

APPLICATION AND LIMITATIONS

ACRITECH™ is a water based and environmentally friendly product which must be applied when the ambient temperature is above 40°F. For best results, ACRITECH™ should be applied as a surface coating over PermaDri's Rubber Coat™ or Mine Coat™. Application thickness of these products will vary by end-use and color selected (lighter colors may require a heavier application). For best results, apply in multiple thin coats. Typically, ACRITECH™ will dry to the touch in several minutes and is largely cured within 48 hours. The final cured properties may, however, not be realized for 28 days. ACRITECH™ is unaffected by a range of acids, alkalis, and waterborne salts and is resistant to biological deterioration. ACRITECH™ is not recommended where the surface is continually submerged in water, but can be used where exposure is intermittent. Where ACRITECH™ is applied as a top coating over polyurethane foam in roof coating applications, apply to a minimum thickness of 40 mils (1 mm). Because ACRITECH™ is a flexible membrane, it is important to build thickness to about 40 mils (1mm) for both flexibility and longevity. When applying ACRITECH™ over PermaDri instant-set coatings, ensure that the base coating has been allowed to set for 30 minutes then rinse the surface with water to remove any trace salts. ACRITECH™ over PermaDri's Rubber Coat™ does not require a water wash prior to application, however, allow the Rubber Coat™ to cure for 30-60 minutes. *Complete details on application can be obtained by calling the technical service number below.*

CLEANING

Tools and equipment can be cleaned with distilled water if the product is fresh and still liquid.

STORAGE

Shelf life of ACRITECH™ stored in its original unopened container is 12 months. Normal stirring upon opening is recommended. ACRITECH™ should not be stored below 50°F or above 90°F. ACRITECH™ contains no solvents and has a flash point greater than 356°F. Keep out of the reach of children.

TECHNICAL SERVICE:

559-275-9620 | 800-279-5604

Supplier: PermaDri, Incorporated 4595 West Jacquelyn Ave., Fresno, CA 93722 • Phone: 559-275-9620 • 800-279-5604 • Fax: 559-275-9629

THIS PRODUCT IS NOT SUBJECT TO THE CONTROLLED PRODUCTS OR THE TRANSPORTATION DANGEROUS GOODS REGULATIONS

SECTION I: MATERIAL IDENTIFICATION

TRADE NAME: ACRITECH™ • EMERGENCY TELEPHONE #: 559-275-9620

CHEMICAL FAMILY: Water suspension of elastomeric synthetic polymers and inert fillers.

MATERIAL USE: Protective Coating • T.D.G. CLASSIFICATION: NON REGULATED • WHIMIS CLASSIFICATION: NON REGULATED

SECTION II: HAZARDOUS INGREDIENTS

COMPONENT	CAS#	%(BY MASS)	LC50 (ppm) (rat inhal)	LD50 (mg/kg) (rat oral)
Complex mixture of synthetic polymers	n/a	40-70	n/a	n/a
Anionic surfactants	n/a	0.5-2.0	n/a	n/a
Inert mineral fillers	n/a	10-30	n/a	n/a
Water	7732-18-5	10-20	n/a	n/a
Ammonia	7664-41-7	0.2 (max)		

SECTION III: PHYSICAL PROPERTIES

Odor and appearance: Grey liquid, slight ammoniacal odor. • Odor threshold: n/a • Specific gravity: 1.00 (approx.).

Coefficient of water/oil distribution: n/a • Vapor pressure (mm Hg): 17 @ 68°F (20°C) (water) • Boiling point: 212°F (100°C) (water) • Freezing point: 32°F (0°C) pH: 8-11 • Vapor density (air = 1): > 1 • Evaporation rate (nBuAcetate = 1): <1 • Volatiles %: 10-30 (water) • Solubility in water: completely dispersible

SECTION IV: FIRE & EXPLOSION DATA

Means of extinction: n/a • Sensitivity to mechanical impact/static discharge: n/a • Flash point (method): n/a (non-combustible)

Upper flammable limits %: n/a • Lower flammable limits %: n/a • Autoignition temperature: n/a • Special fire fighting instructions: n/a

Unusual fire and explosion hazards: Product will not burn but may splatter if temperature exceeds the boiling point.

SECTION V: REACTIVITY DATA

Chemical stability: Stable • Incompatible materials: ACRITECH is an alkaline product and will react with alkaline sensitive materials such as acids and certain metals. Contact with incompatible chemicals such as acids or multivalent salts may cause coagulation. Extended contact with reactive metals such as aluminum or magnesium may result in the formation of hydrogen gas. Hazardous decomposition products: To prevent formation of steam, avoid heating about 212°F (100°C). If the product is subjected to elevated temperatures, hazardous vapors can be released once all the water has evaporated. Potential vapors include carbon monoxide, organic acids, and aldehydes. • Hazardous polymerization: Will not occur.

SECTION VI: HEALTH INFORMATION

Exposure limit: n/a • Inhalation: n/a • Skin: Short single exposure is not likely to cause significant skin irritation. Prolonged or repeated exposure may result in slight irritation and redness. A single prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts • Eyes: Contact with the eyes will result in irritation. • Ingestion: Single dose oral toxicity is considered to be very low. Chronic effects: n/a Caution: Inhalation of vapor or mist can cause headache, nausea, and irritation of the eyes, nose, throat, and lungs.

EMERGENCY AND FIRST AID PROCEDURES

Inhalation: n/a Skin: This is an alkaline product. If splashed on the skin immediately wash thoroughly with fresh water. If the product has dried on the skin massage the area with medical grade mineral oil, baby oil or edible oil, then wash with soap and water. If irritation persists seek medical attention.

Eyes: Flush thoroughly with fresh water for at least ten minutes. Seek medical attention. Ingestion: DO NOT INDUCE VOMITING. Seek medical attention.

SECTION VII: SPILL PROCEDURES

In the event of a spill: Dike and contain, transfer to containers for recovery or disposal. Keep out of sewers. Waste disposal method: Follow federal, provincial and local regulations regarding disposal.

SECTION VIII: SPECIAL PROTECTION

Respiratory protection: n/a • Ventilation: Good general ventilation should be sufficient to control airborne levels of irritating vapors. Local exhaust ventilation may be necessary for some operations. • Protective gloves: Recommended • Eye protection: safety glasses/splash goggles recommended. Other protective equipment: Long sleeves, loose clothing recommended.

SECTION IX: SPECIAL PRECAUTIONS

Storage and handling conditions: Keep containers tightly closed when not in use. KEEP FROM FREEZING.

Special shipping information: Not regulated by the Transportation of Dangerous Goods Regulations.

Prepared by: PermaDri, Incorporated • Preparation date: 06/22/08

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