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Revised 9/05

- Material Safety Data Sheet - APP Modified Bitumen Membranes

IDENTIFICATION OF PRODUCT

Identity: APP Modified Bitumen, (Atactic Polypropylene)
Modified Bituminous Waterproofing Membrane

Manufacturer's Name: BITEC, INCORPORATED
Emergency Phone: (800) 535-8597
Address: #2 Industrial Park Drive,
Morrilton, Arkansas 72110

Trade Name: APS-4T, APM-4T, APM-4.5T, AFS-4T, AFS-3T, FA-2T, FAV-2T, APS-5T, ISA-4T, Mineral Design MDA, UDL-40, Compafash APP Compound

Chemical Name: various
Chemical Family: various
Chemical Formula: various

HAZARDOUS COMPONENTS OF MIXTURE

The precise composition of this product is proprietary information. A more detailed disclosure will be provided by BITEC, INC. to qualified medical or industrial hygiene personnel as privileged information upon request in case of need for specific treatment.

Ingredient	TLV
Asphalt (Bitumen)	5 mg/cu.m.
Amorphous polypropylene	N/A
Calcium carbonate	N/A
Talc (Anti-Blocking agent)	5 mg/cu.m.
Polyester fabric	N/A
Polyethylene film	5 mg/cu.m.
Fiberglass mat	N/A
Sand	10 mg/cu.m. / (% Free Si+2)

TYPICAL PHYSICAL DATA

Appearance: Black Bituminous
Boiling Point: >450°F
Specific Gravity: > 0.9 -1.1 (water = 1)
Vapor Press. (mm Hg): N/A
% Volatile (by vol): N/A
Solubility in Water: 0%
Evaporation Rate: N/A
Vapor Density (air = 1): >1

FIRE AND EXPLOSION HAZARD DATA

Flash Point (C.O.C.): >520°F
Flammable Limits (% by vol): N/A
LEL: N/A, UEL: N/A
Fire Extinguishing Media: water, dry chemical,
foam, CO₂

Special Fire Fighting procedures: Water spray may be ineffective. Water spray should be used to cool burning containers or units exposed to fire. Do not enter the fire area without positive pressure, self-contained breathing apparatus.

Unusual Fire & Explosion Hazards: None
Hazardous Prod. of Combustion: CO, CO₂, NO_x, smoke

HEALTH HAZARD DATA

Threshold Limit Value: See Hazardous Components

Effects of Over-Exposure:

Eyes: Contact with eyes may result in irritation and burning.
Skin: Prolonged contact with skin may cause irritation and contact dermatitis.
Ingestion: Ingestion may result in gastric disturbances.
Inhalation: Inhalation of high concentrations may lead to local irritation, headaches, nausea, impairment of reaction time and coordination, dizziness.

Emergency First Aid Procedures:

Eyes: Flush eyes with fresh flowing water. If irritation persists, seek medical attention.
Skin: Hot bitumen will burn. If burned, treat by degree. Seek medical attention immediately.
Ingestion: Do not induce vomiting. Seek medical attention immediately.
Inhalation: Move to fresh air when high concentrations are inhaled. Administer aid in breathing if necessary. If difficulty in breathing or irritation of respiratory tract occurs, seek medical attention immediately.

(over)

- Material Safety Data Sheet - APP Modified Bitumen Membranes

REACTIVITY DATA

Stability: Unstable _____
 Stable X

Conditions to avoid:
Hot asphalt will burn. Avoid contact with skin when product is in molten state. Use only in well ventilated areas, or provide adequate air exchange if used in confined spaces.

Incompatibility:
Polar solvents, petroleum distillates.

Hazardous Decomposition Products:
See Fire and explosion hazard data section.

Hazardous Polymerization: Will not occur.

SPILL OR LEAK PROCEDURES

Steps to be taken if Material is released or spilled:
Dispose of in accordance with local, state or federal codes.

HANDLING AND STORAGE PRECAUTIONS

Precautions to be taken in Handling and Storage:
Use good housekeeping practices.

SPECIAL PROTECTION INFORMATION

Respiratory Protection:
Adequate ventilation is required.

Protective Gloves:
Gloves should be used when handling hot bitumen.

Eye Protection:
Safety glasses should be worn when handling molten materials.

Other Protective Equipment:
Long sleeve shirt, long pants, flat soled shoes.

Date of Issue: June 2004

Reviewed by 

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Revised 9/05

- Material Safety Data Sheet - SBS Modified Bitumen Membranes

IDENTIFICATION OF PRODUCT

Identity: SBS Modified Bitumen, (Styrene-Butadiene-Styrene)
Modified Bituminous Waterproofing Membrane

Manufacturer's Name: BITEC, INCORPORATED
Emergency Phone: (800) 535-8597
Address: #2 Industrial Park Drive,
Morrilton, Arkansas 72110

Trade Name: SFM-3.5H, FS-2H, FS-2H Plus, FS-25,
FS-40, FSV-2H, PS-2H, BFS-2H, SPM-4.5T,
SPM-3.5H, SPM-4H, SPM-4H/250, SPS-3H, EGM-2H,
Mineral Design MDS, Imperflex USA, Imperflex MSA,
Defend, MAT-40, Compaflash SBS compound

Chemical Name: various
Chemical Family: various
Chemical Formula: various

HAZARDOUS COMPONENTS OF MIXTURE

The precise composition of this product is proprietary information. A more detailed disclosure will be provided by BITEC, INC. to qualified medical or industrial hygiene personnel as privileged information upon request in case of need for specific treatment.

Ingredient	TLV
Asphalt (Bitumen)	5 mg/cu.m.
Styrene-Butadiene-Styrene	N/A
Calcium carbonate	N/A
Polypropylene film	N/A
Fiberglass mat	N/A
Sand	10 mg/cu.m. / (% Free Si+2)
Roofing granules	N/A
Polyester fabric	N/A

TYPICAL PHYSICAL DATA

Appearance: Black Bituminous
Boiling Point: >450°F
Specific Gravity: > 0.9 -1.1 (water = 1)
Vapor Press. (mm Hg): N/A
% Volatile (by vol): N/A
Solubility in Water: 0%
Evaporation Rate: N/A
Vapor Density (air = 1): >1

FIRE AND EXPLOSION HAZARD DATA

Flash Point (C.O.C.): >520°F
Flammable Limits (% by vol): N/A
LEL: N/A, UEL: N/A
Fire Extinguishing Media: water, dry chemical,
foam, CO₂

Special Fire Fighting procedures: Water spray may be ineffective. Water spray should be used to cool burning containers or units exposed to fire. Do not enter the fire area without positive pressure, self-contained breathing apparatus.

Unusual Fire & Explosion Hazards: None
Hazardous Prod. of Combustion: CO, CO₂, NO_x, smoke

HEALTH HAZARD DATA

Threshold Limit Value: See Hazardous Components

Effects of Over-Exposure:

Eyes: Contact with eyes may result in irritation and burning.

Skin: Prolonged contact with skin may cause irritation and contact dermatitis.

Ingestion: Ingestion may result in gastric disturbances.

Inhalation: Inhalation of high concentrations may lead to local irritation, headaches, nausea, impairment of reaction time and coordination, dizziness.

Emergency First Aid Procedures:

Eyes: Flush eyes with fresh flowing water. If irritation persists, seek medical attention.

Skin: Hot bitumen will burn. If burned, treat by degree. Seek medical attention immediately.

Ingestion: Do not induce vomiting. Seek medical attention immediately.

Inhalation: Move to fresh air when high concentrations are inhaled. Administer aid in breathing if necessary. If difficulty in breathing or irritation of respiratory tract occurs, seek medical attention immediately.

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MANUFACTURERS OF ADVANCED TECHNOLOGY WATERPROOFING MEMBRANES



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Revised 9/05

- Material Safety Data Sheet - "Fire Rated" SBS Membranes

IDENTIFICATION OF PRODUCT

Identity: SBS Modified Bitumen, (Styrene-Butadiene-Styrene)
Modified Bituminous Waterproofing Membrane

Manufacturer's Name: BITEC, INCORPORATED
Emergency Phone: (800) 535-8597
Address: #2 Industrial Park Drive,
Morrilton, Arkansas 72110

Trade Name: SFM-3.5H-FR, FS-2H-FR
SFM-4H-FR, SFM-4.5H-FR

Chemical Name: various
Chemical Family: various
Chemical Formula: various

FIRE AND EXPLOSION HAZARD DATA

Flash Point (C.O.C.): >520°F
Flammable Limits (% by vol): N/A
LEL: N/A, UEL: N/A
Fire Extinguishing Media: water, dry chemical,
foam, CO₂

Special Fire Fighting procedures: Water spray may be ineffective. Water spray should be used to cool burning containers or units exposed to fire. Do not enter the fire area without positive pressure, self-contained breathing apparatus.

Unusual Fire & Explosion Hazards: None
Hazardous Prod. of Combustion: CO, CO₂, NO_x, smoke

HAZARDOUS COMPONENTS OF MIXTURE

The precise composition of this product is proprietary information. A more detailed disclosure will be provided by BITEC, INC. to qualified medical or industrial hygiene personnel as privileged information upon request in case of need for specific treatment.

<u>Ingredient</u>	<u>TLV</u>
Asphalt (Bitumen)	5 mg/cu.m.
Styrene-Butadiene-Styrene	N/A
Calcium carbonate	N/A
Fire suppressant*	N/A
Fiberglass mat	N/A
Sand	10 mg/cu.m. / (% Free Si+2)
Roofing granules	N/A

TYPICAL PHYSICAL DATA

Appearance: Black Bituminous
Boiling Point: >450°F
Specific Gravity: > 0.9 -1.1 (water = 1)
Vapor Press. (mm Hg): N/A
% Volatile (by vol): N/A
Solubility in Water: 0%
Evaporation Rate: N/A
Vapor Density (air = 1): >1

HEALTH HAZARD DATA

Threshold Limit Value: See Hazardous Components

Effects of Over-Exposure:

Eyes: Contact with eyes may result in irritation and burning.

Skin: Prolonged contact with skin may cause irritation and contact dermatitis.

Ingestion: Ingestion may result in gastric disturbances.

Inhalation: Inhalation of high concentrations may lead to local irritation, headaches, nausea, impairment of reaction time and coordination, dizziness.

Emergency First Aid Procedures:

Eyes: Flush eyes with fresh flowing water. If irritation persists, seek medical attention.

Skin: Hot bitumen will burn. If burned, treat by degree. Seek medical attention immediately.

Ingestion: Do not induce vomiting. Seek medical attention immediately.

Inhalation: Move to fresh air when high concentrations are inhaled. Administer aid in breathing if necessary. If difficulty in breathing or irritation of respiratory tract occurs, seek medical attention immediately.

(over)

MANUFACTURERS OF ADVANCED TECHNOLOGY WATERPROOFING MEMBRANES

- Material Safety Data Sheet - "Fire Rated" SBS Membranes

REACTIVITY DATA

Stability: Unstable _____
 Stable X

Conditions to avoid:
Hot asphalt will burn. Avoid contact with skin when product is in molten state. Use only in well ventilated areas, or provide adequate air exchange if used in confined spaces.

Incompatibility:
Polar solvents, petroleum distillates.

Hazardous Decomposition Products:
See Fire and explosion hazard data section.

Hazardous Polymerization: Will not occur.

SPILL OR LEAK PROCEDURES

Steps to be taken if Material is released or spilled:
Dispose of in accordance with local, state or federal codes.

HANDLING AND STORAGE PRECAUTIONS

Precautions to be taken in Handling and Storage:
Use good housekeeping practices.

SPECIAL PROTECTION INFORMATION

Respiratory Protection:
Adequate ventilation is required.

Protective Gloves:
Gloves should be used when handling hot bitumen.

Eye Protection:
Safety glasses should be worn when handling molten materials.

Other Protective Equipment:
Long sleeve shirt, long pants, flat soled shoes.

Date of Issue: June 2004

Reviewed by _____

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Revised 9/05

- Material Safety Data Sheet - Fibrated Aluminum Roof Coating

IDENTIFICATION OF PRODUCT

Identity: Fibrated Aluminum Roof Coating
Manufacturer's Name: BITEC, INCORPORATED
Emergency Phone: (800) 535-8597
Address: #2 Industrial Park Drive,
Morrilton, Arkansas 72110
Trade Name: MAC-200, MAC-300
Chemical Name: various
Chemical Family: various
Chemical Formula: various

HAZARDOUS COMPONENTS OF MIXTURE

The precise composition of this product is proprietary information. A more detailed disclosure will be provided by BITEC, INC. to qualified medical or industrial hygiene personnel as privileged information upon request in case of need for specific treatment.

<u>Ingredient</u>	<u>OSHA PEL</u>	<u>TLV</u>
Aluminum pigment	-	-
Asphalt (Bitumen)	-	5mg/cu.m.
Volatile Petroleum Solvents	-	350mg/cu.m.
Asbestos Fibers*	0.2 fiber/cc	-

*Asbestos as raw material only. No friable asbestos fibers in this product.

TYPICAL PHYSICAL DATA

Appearance: Aluminum Paint after drying
Boiling Point: >300°F
Specific Gravity: > 1.0 (water = 1)
Vapor Press. (mm Hg): <5
% Volatile (by vol): 7%
Solubility in Water: 0%
Evaporation Rate: 0.6 (Butyl Acetate = 1)
Vapor Density (air = 1): >20

FIRE AND EXPLOSION HAZARD DATA

Flash Point (P.M.C.T.): 130°F
Flammable Limits (% by vol): N/A
LEL: 0.9%
UEL: 60%
Fire Extinguishing Media: Dry chemical or foam

Special Fire Fighting procedures:

Do not use water or HALON as an extinguishing agent. Allow all materials to cool before disposal.

Unusual Fire & Explosion Hazards: None

Hazardous Prod. of Combustion: CO, CO₂, NO_x, smoke

HEALTH HAZARD DATA

Threshold Limit Value: See Hazardous Components

Effects of Over-Exposure:

Eyes: Contact with eyes may result in irritation and burning.

Skin: Prolonged contact with skin may cause irritation and contact dermatitis.

Ingestion: Ingestion may result in gastric disturbances.

Inhalation: Inhalation of high concentrations may lead to local irritation, headaches, nausea, impairment of reaction time and coordination, dizziness.

Emergency First Aid Procedures:

Eyes: Flush eyes with fresh flowing water. If irritation persists, seek medical attention.

Skin: Long term exposure, seek medical attention immediately.

Ingestion: Do not induce vomiting. Seek medical attention immediately.

Inhalation: Move to fresh air when high concentrations are inhaled. Administer aid in breathing if necessary. If difficulty in breathing or irritation of respiratory tract occurs, seek medical attention immediately.

(over)

- Material Safety Data Sheet - Fibrated Aluminum Roof Coating

REACTIVITY DATA

Stability: Unstable _____
 Stable X

Conditions to avoid:
Heat, sparks and flame. Avoid contact with skin when product is in liquid state. Use only in well ventilated areas, or provide adequate air exchange if used in confined spaces.

Incompatibility:
Chlorinated hydrocarbons, oxidizers, acids and bases.

Hazardous Decomposition Products:
See Fire and explosion hazard data section.

Hazardous Polymerization: Will not occur.

SPILL OR LEAK PROCEDURES

Steps to be taken if Material is released or spilled:
Dispose of in accordance with local, state or federal codes.

HANDLING AND STORAGE PRECAUTIONS

Precautions to be taken in Handling and Storage:
Use good housekeeping practices.

SPECIAL PROTECTION INFORMATION

Respiratory Protection:
Adequate ventilation is required.

Protective Gloves:
Gloves should be used when handling hot bitumen.

Eye Protection:
Safety glasses should be worn when handling molten materials.

Other Protective Equipment:
Long sleeve shirt, long pants, flat soled shoes.

Date of Issue: June 2004

Reviewed by 

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Revised 9/05

- Material Safety Data Sheet - Modified Bitumen Adhesive

IDENTIFICATION OF PRODUCT

Identity: Modified Bitumen Adhesive
Manufacturer's Name: BITEC, INCORPORATED
Emergency Phone: (800) 535-8597
Address: #2 Industrial Park Drive,
Morrilton, Arkansas 72110
Trade Name: PMA-2000, PMA-186
Chemical Name: various
Chemical Family: various
Chemical Formula: various

HAZARDOUS COMPONENTS OF MIXTURE

The precise composition of this product is proprietary information. A more detailed disclosure will be provided by BITEC, INC. to qualified medical or industrial hygiene personnel as privileged information upon request in case of need for specific treatment.

<u>Ingredient</u>	<u>OSHA PEL</u>	<u>TLV</u>
Asphalt (Bitumen)	-	5mg/cu.m.
Volatile Petroleum Solv.	-	350mg/cu.m.

TYPICAL PHYSICAL DATA

Appearance: Black Bituminous
Boiling Point: >300°F
Specific Gravity: 0.9 - 1.1 (water = 1)
% Volatile (by vol): 7%
Solubility in Water: 0%
Evaporation Rate: 0.6 (Butyl Acetate = 1)
Vapor Density (air = 1): >20

FIRE AND EXPLOSION HAZARD DATA

Flash Point (P.M.C.T.): 130°F
Flammable Limits (% by vol): N/A
LEL: 0.9%
UEL: 60%
Fire Extinguishing Media: Dry chemical or foam

Special Fire Fighting procedures:

Do not use water or HALON as an extinguishing agent. Allow all materials to cool before disposal.

Unusual Fire & Explosion Hazards: None

Hazardous Prod. of Combustion: CO, CO₂, NO_x, smoke

HEALTH HAZARD DATA

Threshold Limit Value: See Hazardous Components

Effects of Over-Exposure:

Eyes: Contact with eyes may result in irritation and burning.

Skin: Prolonged contact with skin may cause irritation and contact dermatitis.

Ingestion: Ingestion may result in gastric disturbances.

Inhalation: Inhalation of high concentrations may lead to local irritation, headaches, nausea, impairment of reaction time and coordination, dizziness.

Emergency First Aid Procedures:

Eyes: Flush eyes with fresh flowing water. If irritation persists, seek medical attention.

Skin: Long term exposure, seek medical attention immediately.

Ingestion: Do not induce vomiting. Seek medical attention immediately.

Inhalation: Move to fresh air when high concentrations are inhaled. Administer aid in breathing if necessary. If difficulty in breathing or irritation of respiratory tract occurs, seek medical attention immediately.

(over)

- Material Safety Data Sheet - Modified Bitumen Adhesive

REACTIVITY DATA

Stability: Unstable _____
 Stable X

Conditions to avoid:
Heat, sparks and flame. Avoid contact with skin when product is in liquid state. Use only in well ventilated areas, or provide adequate air exchange if used in confined spaces.

Incompatibility:
Chlorinated hydrocarbons, oxidizers, acids and bases.

Hazardous Decomposition Products:
See Fire and explosion hazard data section.

Hazardous Polymerization: Will not occur.

SPILL OR LEAK PROCEDURES

Steps to be taken if Material is released or spilled:
Dispose of in accordance with local, state or federal codes.

HANDLING AND STORAGE PRECAUTIONS

Precautions to be taken in Handling and Storage:
Use good housekeeping practices.

SPECIAL PROTECTION INFORMATION


Respiratory Protection:
Adequate ventilation is required.

Protective Gloves:
Gloves should be used when handling hot bitumen.

Eye Protection:
Safety glasses should be worn when handling molten materials.

Other Protective Equipment:
Long sleeve shirt, long pants, flat soled shoes.

Date of Issue: June 2004

Reviewed by 

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Revised 9/05

- Material Safety Data Sheet - Oxidized Bitumen Base Sheet

IDENTIFICATION OF PRODUCT

Identity: Oxidized Bitumen Base Sheet
Manufacturer's Name: BITEC, INCORPORATED
Emergency Phone: (800) 535-8597
Address: #2 Industrial Park Drive,
Morrilton, Arkansas 72110
Trade Name: BETA BASE I, BETA BASE II
Chemical Name: various
Chemical Family: various
Chemical Formula: various

HAZARDOUS COMPONENTS OF MIXTURE

The precise composition of this product is proprietary information. A more detailed disclosure will be provided by BITEC, INC. to qualified medical or industrial hygiene personnel as privileged information upon request in case of need for specific treatment.

<u>Ingredient</u>	<u>TLV</u>
Asphalt (Bitumen)	5mg/cu.m.
Calcium Carbonate	N/A
Fiberglass Mat	N/A
Sand	10 mg/cu.m. / (% Free Si+2)

TYPICAL PHYSICAL DATA

Appearance: Black Bituminous
Boiling Point: >450°F
Specific Gravity: > 0.9 -1.1 (water = 1)
Vapor Press. (mm Hg): N/A
% Volatile (by vol): N/A
Solubility in Water: 0%
Evaporation Rate: N/A
Vapor Density (air = 1): >1

FIRE AND EXPLOSION HAZARD DATA

Flash Point (C.O.C.): 520°F
Flammable Limits (% by vol): N/A
LEL: N/A, UEL: N/A
Fire Extinguishing Media:
Water, Dry chemical, foam, CO₂

Special Fire Fighting procedures: Water spray may be ineffective. Water spray should be used to cool burning containers or units exposed to fire. Do not enter the fire area without positive pressure, self-contained breathing apparatus.

Unusual Fire & Explosion Hazards: None
Hazardous Prod. of Combustion: CO, CO₂, NO_x, smoke

HEALTH HAZARD DATA

Threshold Limit Value: See Hazardous Components

Effects of Over-Exposure:

Eyes: Contact with eyes may result in irritation and burning.
Skin: Prolonged contact with skin may cause irritation and contact dermatitis.
Ingestion: Ingestion may result in gastric disturbances.
Inhalation: Inhalation of high concentrations may lead to local irritation, headaches, nausea, impairment of reaction time and coordination, dizziness.

Emergency First Aid Procedures:

Eyes: Flush eyes with fresh flowing water. If irritation persists, seek medical attention.
Skin: Hot bitumen will burn. If burned, treat by degree. Seek medical attention immediately.
Ingestion: Do not induce vomiting. Seek medical attention immediately.
Inhalation: Move to fresh air when high concentrations are inhaled. Administer aid in breathing if necessary. If difficulty in breathing or irritation of respiratory tract occurs, seek medical attention immediately.

(over)

- Material Safety Data Sheet - Oxidized Bitumen Base Sheet

REACTIVITY DATA

Stability: Unstable _____
 Stable X

Conditions to avoid:
Hot asphalt will burn. Avoid contact with skin when product is in molten state. Use only in well ventilated areas, or provide adequate air exchange if used in confined spaces.

Incompatibility:
Polar solvents, petroleum distillates.

Hazardous Decomposition Products:
See Fire and explosion hazard data section.

Hazardous Polymerization: Will not occur.

SPILL OR LEAK PROCEDURES

Steps to be taken if Material is released or spilled:
Dispose of in accordance with local, state or federal codes.

HANDLING AND STORAGE PRECAUTIONS

Precautions to be taken in Handling and Storage:
Use good housekeeping practices.

SPECIAL PROTECTION INFORMATION

Respiratory Protection:
Adequate ventilation is required.

Protective Gloves:
Gloves should be used when handling hot bitumen.

Eye Protection:
Safety glasses should be worn when handling molten materials.

Other Protective Equipment:
Long sleeve shirt, long pants, flat soled shoes.

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