

EN-R-GY ROOF COATING

By:  **Sealmark**
Supply

The Hi-Tech Solution for virtually "ANY" Roofing Surface or Substrate

A unique blend of polymers, industrial-grade resins, rubber and thermal sphere particles that form a liquid membrane system... with proven capabilities to provide long-lasting protection for commercial, industrial, residential applications.

Consider The Advantages !

SAVES ENERGY

Sealmark's unique formulation produces a protective shield that results in solar reflectivity of 94.7% reducing the damaging UV that ultimately cause cracking, blistering and lifting. This heat reflection reduces utility costs. A 10-year material warranty is available.

SUPERIOR ADHESION

Forms a permanent bond that won't peel or chip.

EXCEPTIONAL FLEXIBILITY

An elongation factor of over 200% eliminates thermal shock and roof movement through expansion and contraction that can produce cracking. Maintains elastomeric properties after many years.

HIGHLY RESISTANT

To mildew, chemicals, fungus, acid rain, salt water, rust and ponding water.

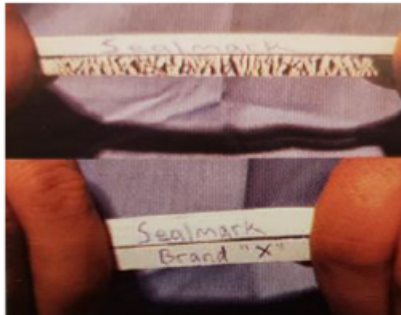
ENVIRONMENTALLY SAFE

VOC-compliant. No harmful vapors.

WATERPROOF

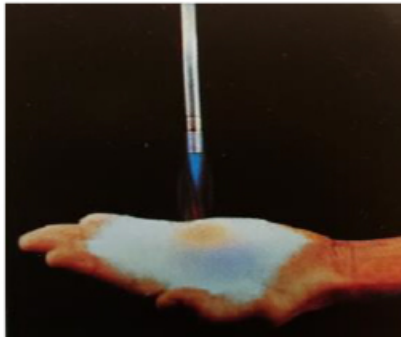
Eight times more water resistant than most asphalts. No penetration from ponded water after four weeks of rigorous testing.

STRETCH TEST



Confirms the ability of Sealmark coating to maintain total integrity on a rubber substrate while competitive material exhibit cracking/separation

FIRE RESISTANT



Has a class A fire rating and will not support combustion. Thermo-Sphere particles help create a thermal barrier.



SPACE AGE TECHNOLOGY FOR YOUR ROOFING INVESTMENT

See reverse page for more information!





Sealmark

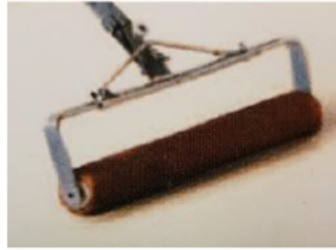
EN-R-GY ROOF COATING

Application: Easy-to-use

The fluid solution is ready use right from the pail or drum and can be applied with a brush, roller or spray equipment. May require only one coat to weather protection. However, usually two coat application is needed depending on conditions and type of substrate. Dry times will vary. Soap and water clean up.



SPRAY



ROLLER



BRUSH

OVER 500 SHADES OF COLOR AVAILABLE



Before



5 Years After

MAY 18 2010

Technical Service Report				
Mintem Technologies Inc. 1521 E. Highway 90 Livestock, TX 48089 Ph: 336-885-1982 Fax: 336-885-0963		Sealmark Bty. Inc. Tony Cupan 480 Coakley Dr. PO Box 01 Gaines, GA 30533 Ph: 724.970.4462 Fax: 724.970.4457		Project # Quote # Date PO#
Abstract Analysis of one coating for Solar Reflectance per ASTM C1345 and Thermal Emittance per ASTM C1327.		Description of Material One panel of Sealmark #1900 Roof Coat		Reviewing Date 2/25/2011
MPN MS-15013P				
TEST	ASTM	Requirement	Result	Conclusion
Solar Reflectance	C 1345	N/A	94.7%	N/A
Thermal Emittance	C 1327	N/A	0.82	N/A
Conclusion Tested By: <i>Janice Pearson</i> Janice Pearson Laboratory Technician		Reviewed By: <i>Cindy Campbell</i> Cindy Campbell Laboratory Manager		

TEST PROPERTIES AND APPROVALS

Accelerated Weathering	No signs of cracking, crazing, erosion, 200 hours weather meter	ASTM-E42
Adhesion	Exceeds maximum testing requirements	ASTM-D-3359
Impact Resistance	Withstood 160 pounds	ASTM-D-2794
Corrosion Resistance	300 Hours salt fog test. No effect	ASTM-B-117
Chemical Resistance	24 Hour exposure to 16 chemicals, No effect	ASTN-D-1308
Freeze/Thaw Cycle	10 cold/hot cycles. No cracking or other deleterious effects	ICBO SPEC
Hail Resistance	Passes-no fractures 2" steel ball dropped repeatedly through a 21-4" diameter tube	
Fungal Resistance	No fungal growth Tropical chamber exposure	ASTM-D03273-73T
Abrasion Resistance	Withstood 500 liters of falling sand abrasion. No wear through	ASTM-D-968
Water Resistance	No Effect. Excellent	D-2247
Ponding	After 4 weeks, no water had penetrated through the coating	U.S. Test Lab Procd.
Fire Resistance	Class A Fire rating	ASTM-E-108



Sealmark

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Technical Service Report

Sealmark Mfg. Inc.
 Tony Cupec
 480 Galiffa Dr. PO Box 91
 Donora PA 15033
 Ph: 724-379-4442 Fax: 724-379-8457

Project #: PX28B1A
 Quote #: 2011-120
 Date: 2/28/2011
 PO#: 1000-22311

Abstract:

Analysis of one coating for Solar Reflectance per ASTM C1549 and Thermal Emittance per ASTM C1371.

MTI#	Description of Material	Receiving Date
MTI-110139	One panel of Sealmark #1000 Roof Coat	2/25/2011

Test	ASTM	Requirement	Result	Conclusion
Solar Reflectance	C 1549	N/A	94.7%	N/A
Thermal Emittance	C 1371	N/A	0.82	N/A

Conclusion:

Tested By:

Janna Pearson
 Janna Pearson

Laboratory Technician

Reviewed By

Cindy Campbell
 Cindy Campbell

Laboratory Manager

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ISO 17025



Material Safety Data Sheet

Sealmark # 1000 ROOF COAT

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Sealmark # 1000 Roof Coat

OTHER/GENERIC NAMES: Acrylic Roof Coating.

PRODUCT USE: Roof Coating

MANUFACTURER: Sealmark Corporation
P.O. Box 91
Donora, Pa. 15033

EMERGENCY PHONE
724-379-4155

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME

CASE NUMBER

Water	773-18-5
Texanol	252265-77-4
Acrylic Copolymers	Proprietary
Tetrachloroisophthalonitrile (Biocide)	1897-45-6
Propylene Glycol Methyl Ether	107-98-2
Clay	67-63-0
Titanium Dioxide	13463-67-7
Calcium Carbonate	1317-65-3
Aluminum Silicate	1332-58-7

3. HAZARDS IDENTIFICATIONS

EMERGENCY OVERVIEW: May cause irritations to nose, eyes, and skin.

POTENTIAL HEALTH HAZARDS

SKIN: Can cause skin irritation.

EYES: Can cause eye irritation.

INHALATION: Can be irritating to nose and upper airway.

INGESTION: Ingestion may cause abdominal discomfort and diarrhea.

DELAYED EFFECTS: Persons with pre-existing central nervous system disease, skin disorders, or Chronic respiratory disease should avoid exposure to this product.

Ingredients found on one of the OSHA designated carcinogen lists are listed below.

<u>INGREDIENT NAME</u>	<u>NTP STATUS</u>	<u>IARC STATUS</u>	<u>OSHA LIST</u>
Tetrachloroisophthalonitrile (Biocide)	Positive	2B-possibly carcinogenic to humans	Not listed

4. FIRST AID MEASURES

SKIN: Remove contaminated clothing; thoroughly wash exposed area with soap and water. Do not use Solvents or thinners to remove from skin; product can be removed with waterless hand cleaners, and vegetable or mineral oil. If irritation persists seek medical attention.

EYES: Flush immediately with running water for 15 minutes, lifting upper and lower lids occasionally. Remove contact lenses.

INHALATION: Remove to fresh air.

INGESTION: If swallowed, give water or milk to drink and seek medical attention immediately. Do not induce vomiting. Consult medical personnel.

ADVICE TO PHYSICIAN: None

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT:	Not applicable – water based product
FLASH POINT METHOD:	Not applicable
AUTOIGNITION TEMPERATURE:	> 300 F
UPPER FLAME LIMIT (volume % in air):	Not applicable
LOWER FLAME LIMIT (volume % in air):	Not applicable
FLAME PROPAGATION RATE (solids):	Not applicable
OSHA FLAMMABILITY CLASS:	Not determined

EXTINGUISHING MEDIA: Extinguish with carbon dioxide, dry chemical, universal-type foam, water fog and water.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Not available

SPECIAL FIRE PRECAUTIONS / INSTRUCTIONS: Do not enter any enclosed or confined fire space without proper protective equipment, including self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR OTHER RELEASE: (Always wear recommended personal protective equipment.) This material may be toxic to aquatic organisms and should be kept out of sewage and drainage systems and all bodies of water. Keep people away. Recover free product; add sand, earth or other suitable absorbents. Minimize skin contact and breathing vapors. Ventilate confined spaces; open all windows and doors. Keep product out of sewers, water courses by diking or impounding. Conform with all applicable governmental regulations.

Spills and releases may have to be reported to Federal and/ or local authorities. See Section 15 regarding reporting requirements.

7. HANDLING AND STORAGE

NORMAL HANDLING: (Always wear personal protective equipment.)

Keep containers tightly closed. Keep containers cool and dry. Use this product with adequate ventilation.

STORAGE RECOMMENDATIONS: Keep containers closed when not in use. Do not store near heat, sparks, flame, or strong oxidants. Keep product from freezing.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Ventilation should be adequate to maintain vapor and particulate levels below applicable exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

SKIN PROTECTION: Use chemical resistant gloves, if needed, to avoid prolonged and repeated skin contact. Use chemical resistant apron or other impervious clothing, if needed to avoid contaminating regular clothing which could result in prolonged or repeated skin contact.

EYE PROTECTION: Use splash goggles or face shield when eye contact may occur.

RESPIRATORY PROTECTION: Use NIOSH / MSHA approved respirator when spraying product or when TLV may be exceeded.

ADDITIONAL RECOMMENDATIONS: Minimize breathing vapor or mist. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder before reuse. Remove contaminated shoes and thoroughly clean and dry before reuse. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed with waterless hand cleaners followed by washing with soap and water.

EXPOSURE GUIDELINES

INGREDIENT NAME	ACGHI YLV	OSHA PEL
Paint film preservative	0.5 mg/m ³	none

OTHER EXPOSURE LIMITS FOR POTENTIAL DECOMPOSITION PRODUCTS: None.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Brilliant white color
PHYSICAL STATE:	Thick liquid
ODOR:	Sweet acrylic odor
SPECIFIC GRAVITY:	approx. 1.2
SOLUBILITY IN WATER:	Soluble
ph:	8. to 9
BOILING POINT:	Not determined
VAPOR PRESSURE:	Not determined
VAPOR DENSITY:	Not determined
EVAPORATION RATE:	Not determined
% VOLATILES:	62g/gal
FLASH POINT:	Not applicable

10. STABILITY AND REACTIVITY

NORMALLY STABLE? (CONDITIONS TO AVOID): Stable

INCOMPATIBILITIES: Avoid contact with strong oxidizing agents.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

IMMEDIATE (ACUTE) EFFECTS:

Biocide: Oral LD50 – rat 1620 mg/kg
Dermal LD50 – rabbit > 2000 mg/kg

Acrylic Oral LD50 – rat 2000 mg/kg
Dermal LD50 – rat 2000 mg/kg

DELAYED (SUBCHRONIC AND CHRONIC) EFFECTS:

Biocide: Carcinogenic in 2- year rat feeding study at time weighed average doses of 5063 ppm and 10,126 ppm

OTHER DATA: Positive in in-vitro mammalian genetic assays.

12. ECOLOGICAL INFORMATION

This Material may be toxic to aquatic organisms and should be kept out of sewage and drainage systems and all bodies of water.

13. DISPOSAL CONSIDERATIONS

RCRA

Is the unused product a RCRA hazardous waste if discarded? Below levels that require reporting.

OTHER DISPOSAL CONSIDERATIONS: Dispose in compliance with state and local regulations.

This information offered here is for the product as shipped. Use and/ or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

14. TRANSPORT INFORMATION

US DOT HAZARD CLASS: Not applicable

US DOT ID NUMBER: Not applicable

15. REGULATORY INFORMATION

TOXIC SUBSTANCE CONTROL ACT (TSCA)

TSCA INVENTORY STATUS: Ingredients are listed on the TSCA Inventory.

OTHER TSCA ISSUES: None

SARA TITLE III/CERCLA

“Reportable Quantities” (RQs) and/ or “Threshold Planning Quantities” (TPQs) exist for the following ingredients.

<u>INGREDIENT NAME</u>	<u>SARA/ CERCLA RQ (lb)</u>	<u>SARA EHS TPQ (lb)</u>
No ingredient listed in this section		

Spills or releases resulting in the loss of any ingredient at or above its RQ requires immediate notification to the National Response Center (800-424-8802) and your local Emergency Planning Committee.

SECTION 311 HAZARD CLASS: None

SARA 313 TOXIC CHEMICALS: Below levels that require reporting.

STATE RIGHT TO KNOW

In addition to the ingredients found in Section 2, the following are listed for state right-to-know purposes

<u>INGREDIENT NAME</u>
No ingredient listed in this section.

ADDITIONAL REGULATORY INFORMATION: This product contains chemicals known to the State of California to cause cancer, birth defects, and/or other reproductive harm.

Tetrachloroisophthalonitrile	13463-67-7
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WHMIS CLASSIFICATION (CANADA): Not determined

FOREIGN INVENTORY STATUS: Not determined

16. OTHER INFORMATION

CURRENT ISSUE DATE: December, 2002

OTHER INFORMATION: **Hazardous Materials Identification System:** (HMIS RATING)
Health-1 Flamibility-0 Reactivity-0

Hazard Ranking: 0-Least 1-Slight 2-Moderate 3-High 4- Extreme

DISCLAIMER:

The information in this MSDS was obtained from sources we believe are reliable. However, the Information is provided without any representation or warranty, expressed or applied, regarding its accuracy or completeness.

The conditions of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.

Disposal of containers should be in accordance with applicable federal, state, and local laws and regulations.