

# DynoFlex

## Natural Tan

**DESCRIPTION:** Safecoat DynoFlex is a unique, water based, low odor elastomeric sealer that comes in a paste-like compound for sealing seams, joints and cracks in new and old heating and air conditioning ducts, and for repairing metal roofs and asphalt shingles. Also comes in a sprayable form that can be used over **Safecoat DynoSeal** as a topcoat for roofs and decks.

Safecoat DynoFlex is highly resistant to harsh weather and temperature changes. It remains flexible and prevents leaks even after exposure to the elements or contraction due to weather. It is resistant to gasoline, oil, grease, fungi, acids, alkalines and flame spread. Safecoat DynoFlex is also a superb sound deadener.

**PRODUCT NUMBER AND CONTAINER SIZE:** 51173 (quart) and 51373 (five gallon).

**USE ON:** Safecoat DynoFlex is recommended for new and old heating and air conditioning ducts, metal roof cracks, damaged asphalt shingles, mobile home roofs and similar areas. In the sprayable form, it is recommended as a topcoat for **Safecoat DynoSeal**.

### ADVANTAGES / SIGNIFICANT BENEFITS:

- Effective, easy to use.
- Non-offensive to installer and occupant.
- When used in conjunction with **SafeChoice Super Clean** and **SafeChoice X-158**, DynoFlex is a full system for sealing, cleaning and maintaining all heating and air conditioning ducts.
- Safely used by and for the chemically sensitive.
- Very low VOC content, meets or exceeds all federal and state air quality regulations, including California.

**APPLICATION:** Always have adequate ventilation. All areas to be coated should be clean and dry. Remove all oil, dirt, dust, rust and loose residue. When possible clean with a not toxic, biodegradable and odorless cleaner like **SafeChoice Super Clean**. Old asphalt shingles should be power washed prior to treatment. Allow all surfaces to dry completely before applying DynoFlex. Apply DynoFlex at 15 mils wet directly from the container without dilution. Use a brush, squeegee-type applicator or trowel and smooth evenly to produce a uniform and seamless coat. Two coats provides additional protection.

**COVERAGE:** 100 square feet per gallon at 15 mils thickness.

**CLEAN-UP:** Clean tools and equipment while they are still wet with a solution of **SafeChoice Super Clean** and warm water.

**DRYING/CURING TIME:** To touch within 2 hours. Cures hard in 24 hours.

**LIMITATIONS:** Do not apply when ambient or surface temperature is below 55 degrees F. Avoid application in direct hot sun, which may cause premature dryout. If product has thickened in container add a small amount of water and stir to return product to original paste consistency. Safecoat DynoFlex does not contain formaldehyde preservatives. Do not contaminate. When not in use keep container closed.

**HEALTH PRECAUTIONS:** As with all coatings and stains, keep container tightly closed and out of the reach of children. Do not take internally. Keep from freezing. Always use adequate ventilation. *If you are chemically sensitive, always test for personal tolerance.*

**LIMITED LIABILITY:** The great variation between environmental factors, possible surfaces and application techniques, and the lack of control we have over such matters, must affect our policies. Safecoat products are guaranteed not to be defective when applied and used in accordance with instructions. However, liability, whether express or implied, is limited solely to replacement of product or refund of purchase price and shall under no circumstances include liability for labor costs or consequential damages. Because of the variety of circumstances affecting each job, it is the user's responsibility to determine the suitability and safety of the product for any particular application. This limited warranty may not be modified or extended by manufacturer's representatives, distributors, or dealers of AFM products. **We particularly recommend that users always test in small inconspicuous areas before application to the entire surface.**

# MATERIAL SAFETY DATA SHEET

Prepared according to 29 CFR 1910.1200

N/A = Not applicable

Revised 1/15/03

## SECTION 1 - PRODUCT IDENTIFICATION

**Trade Name:** Safecoat DynoFlex Textured Natural  
**Product I.D.# & Color:** 5173 Tan  
**Product Class:** Waterborne Polymer Emulsion  
**Supplier's Name:** American Formulating & Manufacturing  
**Telephone #:** (619) 239-0321 **Fax #:** 619-239-0565  
**Address:** 3251 Third Avenue, San Diego, CA 92103  
**Emergency Phone (MSDS Information):** (619) 239-0321 or (562) 693-0872  
**D.O.T. Emergency Phone Number:** (562) 693-0872  
**US DOT Hazard Shipping Class:** Not regulated - aqueous  
**D.O.T. Labels/Placards Required:** No  
**OSHA Class:** 29CFR 1910.1200 Non-hazardous  
**SARA TITLE III Emergency & Community Right to Know:**  
Section 311/312 Categorizations (40 CFR 370): Not a hazardous chemical  
Section 313 Information (40 CFR 372): See Section 2

## SECTION 2 - INGREDIENTS

Modified Acrylic Copolymer	CAS #: Mixture	Weight Percent:	45 - 50
Water	CAS # 7732-18-5	Weight Percent:	35 - 40
Propylene Glycol	CAS #: 57-55-6	Weight Percent:	< 3
Vapor Pressure 0.22 mm Hg @ 77 F			
Magnesium Aluminum Silicate	CAS #: 12174-11-7	Weight Percent:	1.61
PEL-OSHA 15mg/M3 (Total Dust) 5mg/M3(Respirable Dust)			
TLV-ACGIH 10 mg/M3 (Inhalable particulate) 3mg/M3 (Respirable Particulate)			

**Suspected Cancer Agents:** OSHA: No NTP: NO IARC: No None known.  
HMIS Codes: H-1 F-0 R-0 P-B

## SECTION 3 - PHYSICAL DATA

Boiling Point: (Water) 212F  
Melting Point: .....N/A  
Vapor Density:.....Heavier than air  
% Volatile by Volume:.....44.73  
LBS/GAL Theoretical:.....9.65 +/- .15  
Solubility in Water:.....Dilutable  
Vapor Pressure, mmHg @ 20degC:.....N/A  
Evaporation Rate:.....Slower than ether  
% Volatile by Weight:.....42.17  
Specific Gravity (Water=1):.....1.16  
VOC Material:.....29 grams/liter, 0.24 lb/gal  
VOC Material less H2O: .....50 grams/liter, 0.42 lb/gal

## SECTION 4 - FIRE & EXPLOSION HAZARD DATA

**Flash Point:** N/A non-combustible  
**Flammable limits in air, volume % - lower LEL:** 2.6 **Upper UEL:** 12.5  
**Fire Extinguishing Media:** Water, carbon dioxide, dry chemical  
**Personal Protective Equipment:** Self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved or equivalent) and full protective gear may be worn if desired, but not necessary for normal use.  
**Autoignition Temp.:** N/A  
**Special Fire Fighting Procedures:** Use water (fog) to cool closed containers. Wear self contained breathing apparatus.  
**Unusual Fire & Explosion Hazards:** Closed containers may explode due to the build up of steam pressure when exposed to extreme heat. Material can splatter above 100°C/212°F. Polymer film can burn.

## SECTION 5 - HEALTH HAZARD INFORMATION & FIRST AID

**Threshold Limit Value:** See Section 2.  
**Symptoms of Overexposure**  
**Symptoms and Effects of Short Term Exposure:** Acute. Primary route of entry:  
**Swallowing:** May cause gastrointestinal irritation, nausea, vomiting and diarrhea.  
**Inhalation:** Inhalation-spray mists may cause mild respiratory irritation. If material enters lungs during swallowing or vomiting, can cause lung inflammation and damage.  
**Eye Contact:** Liquid splashed into the eye may cause transient eye irritation.  
**Skin Absorption:** None known.  
**Symptoms and Effects of Repeated Overexposure:** Chronic - None known.  
**Medical Conditions Generally Aggravated by Exposure:** None known.  
**Emergency & First Aid Procedures:**  
**Inhalation:** Remove from exposure. Provide plenty of fresh air.

**Splash (eyes):** Flush immediately with large amounts of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Take to a physician for medical treatment.

**Splash (skin):** Remove with soap and water. Remove contaminated clothing. Supply copious amounts of fresh water to the skin areas to rinse material away.

**Ingestion (Swallowing):** Consult with physician, hospital emergency room, or poison control center immediately. Only if conscious, give 2 glasses of water to drink.

**Notes to Physician:** Any treatment that might be required for overexposure should be directed at the control of symptoms and the clinical conditions.

## SECTION 6 - REACTIVITY DATA

**Stability:** Stable, however avoid temperatures above 177°C/350°F, the onset of polymer decomposition.

**Incompatibility (materials to avoid):** Avoid materials that are water reactive, highly alkaline or highly acidic.

**Hazardous Decomposition by-products:** CO, CO2 on combustion

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** Excess heat may cause containers to rupture. Avoid temperatures below 45°F or freezing conditions.

## SECTION 7 - SPILL, DISPOSAL PROCEDURES; ENVIRONMENTAL DATA

**Steps to be taken in case material is released or spilled:** Confine in small area; contain and remove with inert absorbent (sand, earth, etc.). Place in proper container for proper disposal. CAUTION - Keep out of waterways, drains, sewers by diking. Keep spectators away. Floor may be slippery. Use care to avoid falling.

**Waste Disposal Method:** Place contaminated material in suitable sealed metal containers for disposal. Do not incinerate closed containers. Use non leaking containers, seal tightly and label properly. Do not pour contaminated paint back into unused paint. Do not throw liquid paint into the trash. Where allowed by local laws (check with local regulatory agencies) allow liquid waste materials to dry out before disposing into trash containers. Take all liquid unused paint that cannot be used to approved recycling centers, paint roundups, or county facilities that are approved to take unused paint at collection sites. Contact state, county, city health services or fire departments to find nearest collection centers. Do not dispose of waste into water streams or storm water sewers. Do not mix with other kinds of waste. Dispose all waste in accordance with local, state and federal regulations.

**RCRA Classification:** As produced, this product is not a waste. If discarded as is, it is not classified a "Hazardous" waste under RCRA. This product is not ignitable, corrosive, reactive, or toxic; therefore is not defined as hazardous by the EPA.

**Environmental Hazards:** None known.

## SECTION 8 - SPECIAL PROTECTION INFORMATION

**Respiratory Protection:** If applied by spraying, use an appropriate, properly fitted NIOSH/MSHA approved respirator to remove spray mist. Good room (mechanical) ventilation should be sufficient protection against vapors from product. If further protection is desired or if persons are sensitive to vapors, use a respirator with a NIOSH/MSHA approval number TC-23C-860 or TC-23C-87 or an equivalent. Refer to OSHA 29 CFR 1910.134, "Respiratory Protection".

**Ventilation:** General (mechanical) room ventilation is expected to be satisfactory.

**Protective Gloves:** None required under most conditions. If protection is desired, plastic, nitrile or latex rubber will provide adequate protection.

**Eye Protection:** Safety glasses or goggles with side shields if splashing may occur. Use goggles when spraying, ANSI Z87.1 or approved equivalent.

**Other Protection:** Eye wash or copious amounts of water as a precautionary measure is suggested. Other equipment not likely to be needed.

## SECTION 9 - STORAGE & SPECIAL HANDLING

**Storage Temperature:** Min. 45degF - Max. 120degF/Indoor and outdoor = OK  
This product should be stored at room temperature to prolong shelf life. Keep containers in a cool, dry place. Avoid subjecting this product to extreme temperature variations and freezing. Adverse conditions can cause emulsion coagulation.

**KEEP CONTAINER CLOSED. KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY. DO NOT GET IN EYES. IF PRODUCT IS SPRAYED, PREVENT PROLONGED OR REPEATED BREATHING OF SPRAY MIST. USE ADEQUATE VENTILATION WHEN USING THIS PRODUCT. USE GOOD HYGIENE PRACTICES AND WASH AFTER USING PRODUCT.**

NOTICE: The data and recommendations presented herein are based upon our research and the research of others, and are believed to be accurate. No guarantee of their accuracy is made, however, and the product discussed is distributed without warranty, expressed or implied, and the person receiving such product shall make his own determination of the suitability thereof for his particular purpose. The use of this information and the conditions and use of this product are controlled by the user, and it is the responsibility and obligation of the

user to determine the conditions of safe use of this product. If persons using this product are chemically sensitive, a test for personal tolerance is recommended.