

3 in 1 Adhesive

DESCRIPTION: Safecoat 3 in 1 Adhesive is a low odor, not toxic, water-based adhesive designed for hard composition wall and floor tiles and carpeting.

USE ON: Safecoat 3 in 1 Adhesive is recommended for adhering floor tiles made of ceramic, vinyl, parquet, formica and slate; for lightweight wall tiles; and for any carpet application where a typical carpet adhesive would be used.

PRODUCT NUMBER AND CONTAINER SIZE:
71210 (quart), 71110 (gallon) and 71310 (five gallon).

ADVANTAGES / SIGNIFICANT BENEFITS:

- Effective, easy to use adhesive.
- Low odor, non-offensive to installer and occupant.
- Safely used by and for the chemically sensitive.
- Very low VOC content, meets or exceeds all federal and state air quality regulations, including California.
- Contains no formaldehyde.

SURFACE PREPARATION: All substrates to receive adhesive and overlays must be sound and intact. Any loose areas should be repaired or anchored to produce a firm footing for adhesion. All surfaces must be cleaned of any grease, oils, dust, dirt, wax, unsound prior adhesive and other foreign materials. Washing with a low odor, not toxic cleaner like **SafeChoice Super Clean** is recommended. Surface must be completely dry and stable prior to application. For maximum adhesion, apply a thin coating of **Safecoat Safe Seal** to the substrate and if possible the back of the tile before spreading adhesive and laying the tiles.

APPLICATION: Always have adequate ventilation. For Mexican pavers and ceramic tile, application should be made with 1/8" or larger notched trowel (commonly v-notched for walls and square notched for floors, but consult your installer), except that a 3/16" notched trowel should be used for wall tiles. All other applications require 1/16". Due to rapid cure do not spread the adhesive over areas larger than 16-20 square feet. Allow adhesive to set up or "tack-up" for a few minutes (typically not more than 10-15 depending upon temperature and humidity), and then insert tiles into mastic. **All tile must be at room temperature and above 55 degrees.** Maintain a wet, tacky surface during installation of the tile. Do not allow adhesive to skim over. If a film forms or adhesive skims over, or sets up so that it is no longer sticky, scrape all adhesive off the surface and reapply. Allow 24 hours for 3 in 1 Adhesive to cure out before opening to traffic or for any further surface filling. A trial application is recommended to assure proper adhesion can be obtained. Testing is particularly important for parquet and wooden floor material, which varies considerably in consistency and may have a tendency to warp. Again, seal the bottom of the material with **Safecoat Safe Seal** to help provide a moisture barrier.

COVERAGE: 50-60 square feet per gallon with 1/8" notched trowel. 100-120 square feet per gallon with 1/16" notched trowel.

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

DRYING/CURING TIME: 24 hours for full cure.

LIMITATIONS: Do not apply to substrate in direct sun or where hot to the touch as this will cause excessively fast curing and prevent adhesion into a wet, tacky base. Sample test a small area to assure proper adhesion can be obtained. Use only where room and surface temperatures are above 55 degrees and below 90 degrees F. Do not freeze. Unused contents should be kept in a closed container in a cool, dry place out of direct sunlight. Do not contaminate.

HEALTH PRECAUTIONS: As with all adhesives, 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 3 in 1 Adhesive

Product I.D.# & Color: 7110 White

Product Class: Waterborne Acrylic Copolymer Adhesive

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): This product does not contain a chemical which is listed in Section 313 above de minimis concentrations.

SECTION 2 - INGREDIENTS

Modified Acrylic Copolymer	CAS #: Mixture	Weight Percent: 90-95
Propylene Glycol	CAS #: 57-55-6	Weight Percent: 0 - 5
	Vapor Pressure .22 mm Hg @ 77 F	
Aqueous Acrylic Polymer	CAS #: Mixture	Weight Percent: < 4
	Vapor Pressure 17 mm Hg @ 68 F	
Aqueous Acrylic Polymer	CAS #: Mixture	Weight Percent: < 3
	Vapor Pressure 17 mm Hg @ 68 F	

Suspected Cancer Agents: Federal 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) 190-212F
Melting Point:	N/A
pH:	8.5-8.7
Vapor Density:	Heavier than air
% Volatile by Volume:	45.25%
LBS/GAL Theoretical:	9.42 +/- .15
Solubility in Water:	Dilutable
Vapor Pressure, mmHg @ 20degC:	N/A
Evaporation Rate:	Slower than ether
% Volatile by Weight:	43.86%
Specific Gravity (Water=1):	1.13
VOC Material:	.55 g/l, 0.46 lb./gal
VOC Material less H2O:	.92 g/l, 0.77 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 for hazardous ingredient information

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.

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.