

Application Guide

Optional Tools & Supplies

Professional Mechanical Equipment

High Volume Low Pressure (HVLP) Sprayer, Airless Paint Sprayer w/#11 Tip, Wood Sander, Floor Buffer, Pressure Washer, Commercial Wet/Dry Vacuum, Floor Fans.

Manual Applicators

16" Floor Coating Foam Pad, 18" Paint Tray, NylFoam Stain Pad, Foam Brush, Wiping Rags, Sponges.

Miscellaneous Tools & Supplies

Masking Tape, Painters Tape, Mop & Bucket, Clean Rags.

Do not use a conventional nap roller as Natural-Kote™ is a penetrating technology where you do not want to leave a topical film.

Surface Preparation

Proper surface preparation is critical to a successful long term and beautiful installation. Surfaces must be clean and free of any sealers, waxes, oils, tannins, or coatings for proper penetration. Check the surface for porosity by spraying water. If the water beads or fails to penetrate right away, you have a coating substance that requires removal.

Sanding/Stripping- Sanding is the most efficient and quickest method of surface preparation. Always strip existing stains when changing colors or stain systems. Apply stripper liberally with a HD pump sprayer or by roller and allow to dwell for 10 minutes to 12 hours depending on the age, type, and thickness of coating material. Always test a small area to establish the most effective dwell time prior to full application. For large area applications most will find it convenient to apply and allow to dwell overnight. Remove by power washer, floor scraper, or squeegee as applicable.

Always test a small area prior to full installation. Approximate spread rate is between 400-600 square foot per gallon depending on the application method and porosity of the substrate. You may purchase 2 ounce sample Jars to test for actual colors on your wood species. Porous wood species will tend to be darker. (See Tips)

Application

Mask areas not intended to be stained. Note: If necessary, you may dilute the product with up to 10% clean water and mix well. Keep in mind, diluting the product will lighten the original color slightly and lower the solids content. Avoid puddling or the temptation to apply thick coats like paint. Application method and material rate will affect the stain color.

Always try to achieve your desired color by requesting a custom color to mix to your desired level as described above in order to achieve the color results in one coat. This will save time, money and prevents the chance of oversaturating the wood. If an additional coat is required, proceed with caution and ensure that all topical residue is removed completely.

If your wood species is very porous or subject to uneven stain distribution, you may use the Natural-Kote™ Tint Base (without pigment) to act as a wood conditioner.

HVLP Sprayer Application- Set HVLP gun to a fine mist spray. Find the optimum pressure between 20-50 psi. If using a Black & Decker or similar electric portable unit, the stain tip will generally produce a favorable spray setting. Apply in a thin even pattern and avoid puddling. If excessive topical stain is present, you must wipe all stain residue prior to application of your sealer or topcoat finish.

Manual Applicator- 16" NylFoam Applicator- Pour Natural-Kote™ in a large 18" paint tray and saturate pad evenly. Apply Natural-Kote™ moving from left to right or right to left in 3' passes. Work the stain into the wood substrate for a thin even coat. Do not allow Natural-Kote™ to puddle. All topical stain must be worked into the substrate.

Black & Decker Stain Stick- Using the filling tube, siphon Natural-Kote™ to capacity. Apply in small sections along wood planks and work from left to right or right to left. Make sure to work in all stain removing lap marks or topical stain.

Sponge or Stain Pad Applicator- Pour Natural-Kote™ in a bucket or paint tray. Lightly saturate the applicator and rub or wipe the stain into the surface until dry.

Wiping Pad or Cloth- Slightly saturate applicator with Natural-Kote™. Apply as a wiping stain and rub into the wood surface ensuring an even thin coat application. Spread as far as the stain will go until dry. Repeat the process until finished. Make sure you wipe all excess stain for proper drying and curing prior to finish coat application.

Note: Regardless of the method used, the main objective is to not leave any topical accumulation of Natural-Kote™. Be sure to wipe or back-roll any excess for proper drying and curing. Topical stain will attempt to dry on top of the surface rather than within. Such dried topical stain cannot penetrate and will leave the finish tacky. To remedy this, simply wet area and wipe or buff surface to remove the topical excess.

Drying Time of Natural-Kote™

Natural-Kote™ will generally dry to the touch within 1 hour depending on environmental conditions. Colder climates and high humidity will prolong drying times. When applying additional coats over the 1st coat, be sure to wear socks or protective shoe covers to avoid marks or contamination of the stain coat. Apply additional coat with caution and observe porosity limitations of the wood substrate. Natural-Kote™ requires approximately 6 hours to dry prior to applying Acri-Soy Clear Finish Sealer. Premature application of the sealer may loosen Natural-Kote™ that has not fully penetrated into the surface.

You may expedite the drying time and also effectively even the Natural-Kote™ installation by buffing the stain application. Buff with a light (white or tan pad) after approximately 30 minutes of the stain application. Test a small area prior to full buffing to ensure Natural-Kote™ has penetrated sufficiently. This buffing method will enhance the penetration and drying time significantly. AcriSoy Scaler application may be applied as soon as 2 hours after the buffing process.

Acri-Soy Sealer Application

Apply Acri-Soy after the recommended dry time of Natural-Kote™. The sealer application is recommended to provide a lock-in protective barrier that protects your wood surface and provides a lock-in barrier against moisture and staining. Most applications will require only a single coat. It is recommended to install a minimum of 2 coats for automotive and high traffic areas for maximum protection. Allow approximately 1 hour intercoat dry time between sealer coats.

Basic Troubleshooting

Lap Marks or Over Saturation of Stain- If you experience undesirable marks or topical stain accumulation that has begun to dry, simply spray water over the area and buff the area to spread the stain as desired.

Tackiness of Natural-Kote™- If Natural-Kote™ remains tacky even after 12 or more hours, it is a result of improper penetration due to lack of substrate porosity or over-application. If there is no place for the stain to go, it will simply stay on the top surface and try to cure. Remove all topical residue with an applicable pad or cloth. If the tackiness is not resolved, Call A&L Paint Co. for technical assistance.

White Residue- We recommend shutting off any irrigation that may effect an outdoor installation during the curing period. For unexpected rainfall, Natural-Kote™ has an inherent water repellency chemistry to withstand unexpected rainfall or standing water during installation as long as it was installed properly and allowed to dry for at least 12 hours. Avoid installation of Acri-Soy during rainy forecasts for outdoor installations. If Acri-Soy is subjected to standing water before the full chemical cure, it is possible to witness a white milky substance. If this occurs, simply allow it to dry and reabsorb into the surface naturally. Wiping or cleaning this substance will remove the uncured Acri-Soy. Should this happen, simply re-apply Acri-Soy to the affected area.

Stain Care

Avoid using chemicals to clean the surface during the curing period and up to 14 days. Surfaces may be subjected to normal foot traffic within 12-24 hours depending on environmental conditions. Use caution and avoid applying tape or dragging equipment, furniture, etc. over the sealed surface during the curing period. Standard maintenance cleaning requires only the use of water and/or neutral cleaner. We recommend the use of microfiber wet/dry mops for a chemical free maintenance of your stained floor. If you apply a specialty finish coat, follow all manufacturer floor finish care instructions. It is highly recommended to inspect the sealer for effectiveness every 2-3 years or as needed to extend the life and beauty of your wood stain. Proper care and surface protection will provide years of decorative style and beauty.

Material Safety Data Sheet

Revision Date: 09 Sept. 2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product Description:

Natural-Kote™

Material Code:

Soy-Based Wood Stain
F04-91-1

Manufacturer Name:

A&L Paint Co., LLC
112 Four Wheel Dr. Ste. 2
Rebersburg, PA. 16872
T: 888-960-9796 F: 814-690-1800
alpainsales@gmail.com

Emergency Telephone:

814-349-8064

2. HAZARDS IDENTIFICATION

Emergency Overview:

WARNING!

May cause skin irritation and/or dermatitis
Mild eye irritation
Irritating to respiratory system

Appearance: White

Physical State: Liquid

Odor: Mild, Vegetable Oil

Primary Routes of Entry

Skin contact, Ingestion, Inhalation, Eye contact.

Acute Effects

Eyes:

Mild eye irritant,

Skin:

Mild skin irritant, Repeated exposure may cause skin dryness or cracking.

Inhalation:

Harmful by inhalation, Inhalation of vapors in high concentration may cause irritation of respiratory system, Inhalation of aerosols may cause lung injury.

Ingestion:

Ingestion (Swallowing) may irritate the mouth, throat and stomach. Ingestion is not an anticipated route of exposure for this material in industrial use.

Chronic Effects:

This material does not contain 0.1% or more of any chemical listed by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or regulated by the Occupational Safety and Health Administration (OSHA) as a carcinogen.

Target Organ(s):

Lungs.

HMS:

Health: 1

Flammability: 0

Reactivity: 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %	Status
Proprietary Resin	Proprietary	9 - 10	Not Hazardous
Water	7732-18-5	83 - 85	Not Hazardous
Other Proprietary additives	Proprietary	5 - 10	Not Hazardous

Additional Information

HMRC registration information concerning the confidential component(s) indicated above, can be found in section 15. * The Alkyd Resin is considered to be controlled for Canadian regulatory purposes.

4. FIRST AID MEASURES

Skin Contact:

Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. Get medical attention if irritation develops or persists.

Eye Contact: Move individual away from exposure. Immediately flush eyes with large quantities of clean water for at least 15 minutes. Get immediate medical attention.

Inhalation: Remove person to fresh air. If signs/symptoms continue, get medical attention.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical attention/advice.

5. FIRE-FIGHTING MEASURES

Flammability: Not applicable.

Suitable Extinguishing Media: Carbon dioxide (CO₂), Foam, Dry chemical, Water spray.

Fire/Explosion Hazard: This material will not burn unless it is evaporated to dryness.

Protective Equipment and Precautions for Firefighters: Wear self-contained breathing apparatus (SCBA) and full fire-fighting protective clothing. Thoroughly decontaminate all protective equipment after use. Evacuate all persons from the fire area to a safe location. Move non-burning material, as feasible, to a safe location as soon as possible. Fire fighters should be protected from potential explosion hazard while extinguishing the blaze. Use water spray to cool fire-exposed containers.

NFPA Rating: Health 1 Flammability 0 Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment. Ensure adequate ventilation. Keep people away from and upwind of spill/leak.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

Methods for Containment: Prevent spilled material from 1) contaminating soil, 2) entering sanitary sewers, storm sewers, and drainage systems, and 3) entering bodies of water or ditches that lead to waterways. Prevent spreading over a wide area (e.g. by containment or oil barriers).

Methods for Clean-up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

7. HANDLING AND STORAGE

Handling: Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash hands before breaks and immediately after handling the product. Ensure adequate ventilation.

Storage: Keep from freezing. Keep container tightly closed. Keep in a dry place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

The Occupational Safety and Health Administration (OSHA), has established for inert or nuisance dusts, a Permissible Exposure Limit (PEL) of 15 mg/m³, total dust or 5 mg/m³, respirable fraction for an 8 hour Time Weighted Average (TWA) as Particulates Not Otherwise Regulated (PNOR). The American Conference of Governmental Industrial Hygienists (ACGIH) have established, for inert or nuisance dusts, Threshold Limit Values (TLV) of 10 mg/m³ for inhalable (total) particulates and 3 mg/m³ for respirable particulates based on Particulates Not Otherwise Specified (PNOS).

Engineering controls: Good general ventilation should be sufficient to control airborne levels of irritating vapors. Local ventilation may be required during certain operations.

Personal Protective Equipment

Eye/face Protection: Wear safety glasses with side shields and a face shield or goggles and a face shield. Ensure that eyewash stations and safety showers are close to the workstation location.

Skin Protection: Gloves made of nitrile rubber. Gloves made of neoprene. Chemical resistant apron. Boots.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: None required if hazards have been assessed and airborne concentrations are maintained below the exposure limits listed in Section 8. Wear an approved air-purifying respirator with particulate filters where airborne concentrations may exceed exposure limits in Section 8.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White
Odor:	Mild Vegetable Oil
Odor Threshold:	Not available
Physical State:	Liquid
pH:	6.5 - 8
Flash Point:	Not applicable
Autoignition Temperature:	Not available
Boiling Point/Range:	> 100 °C / 212 °F (Water)
Freezing Point:	0 °C / 32 °F (Water)
Flammability Limits in Air:	
Lower:	Not available
Upper:	Not available
Specific Gravity:	1.03 - 1.054 @ 25°C
Solubility:	Dispersible in Water
Evaporation Rate:	< 1 (BuAc = 1)
Vapor Pressure:	17.5 mmHg @ 20 °C / 68 °F (Water)
Vapor Density:	> 1 (Air = 1)
Percent Volatile:	44 - 46 % by weight
VOC Content:	14 g/l (calculated) product as supplied
Viscosity:	< 500 cps @ 25°C

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Freezing Temperatures.

Incompatible Materials: No materials to be especially mentioned.

Hazardous Decomposition Products: Carbon monoxide. Carbon dioxide (CO₂). Hydrocarbons.

Hazardous Polymerization: Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Animal studies indicate that the inhalation of aerosols of polyalkylene glycol alkyl ether causes lung injury.

Polyalkylene Glycol Alkyl Ether

LD50 Oral	> 2000 mg/kg - rat
LC50 Inhalation	2 mg/l (4 hours - rat (aerosol))

Chronic Toxicity

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Legend: NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration
IARC - International Agency for Research on Cancer

Target Organ(s): Lungs.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects:

No information available.

Bioaccumulation:

No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: NOT A RCRA HAZARDOUS WASTE: When discarded in its purchased form, this material would not be regulated as a RCRA Hazardous waste under 40 CFR 261.

Contaminated Packaging: Empty containers should be taken for local recycling, recovery or waste disposal.

US EPA Waste Number: Not applicable.

14. TRANSPORTATION INFORMATION

DOT

Proper Shipping Name: NOT REGULATED

TDG

Proper Shipping Name: NOT REGULATED

IATA

Proper Shipping Name: NOT REGULATED

IMDG/IMO

Proper Shipping Name: NOT REGULATED

15. REGULATORY INFORMATION

International Inventories

TSCA Inventory Status: All components of this material are listed on the US Toxic Substances Control Act (TSCA) inventory.

Canadian Inventory Status: All components of this material are listed on the Canadian Domestic Substances List (DSL).

Australian Inventory Status: This product contains one or more chemicals currently not on the Australian Inventory of Chemical Substances.

Korean Inventory Status: This product contains only chemicals which are currently listed on the Korean Chemical Substances List.

Philippine Inventory: This product contains one or more chemicals currently not listed on the Philippine Inventory of Chemicals and Chemical Substances.

Japan ENCS: This product contains only chemicals that are currently listed on the Japanese Inventory of Existing and New Chemical Substances.

Chinese IECS: This product contains one or more chemicals currently not on the Chinese Inventory of Existing Chemical Substances.

New Zealand Inventory: This product contains one or more chemicals currently not on the New Zealand Inventory of Chemicals.

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

15. REGULATORY INFORMATION

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

TSCA 12(b) - Export Notification:

This material does not contain any components that are subject to US Toxic Substances Control Act (TSCA) section 12(b) Export Notification requirements.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any HAPs.

CERCLA

This product does not contain Components that have been assigned reportable quantities.

State Regulations

California Proposition 65

WARNING: This material contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class D1B Toxic materials

HMIRC. This product is being reviewed by the Hazardous Material Information Review Commission. Registration # 7817, Filed March 2, 2010.

16. OTHER INFORMATION

Prepared By: A&L Paint Co. LLC,
 Phone Number: 814-349-8060

Revision Date: 09 Sept. 2015

Revision Number: 3

Revision Summary: This data sheet contains changes from the previous version in section(s)
 9, 11

Former date: 29 July 2014

A&L PAINT CO. LLC, urges each customer or recipient of this MSDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this MSDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no Warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all Federal, State, Provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific MSDSs, we are not and cannot be responsible for MSDSs obtained from any source other than ourselves. If you have obtained an MSDS from another source or if you are not sure that the MSDS you have is current, please contact us for the most current version.