

Kel-Crete Tuff-Kote Flex 10,000
ONE COAT/THREE COAT/ PATCH/
CRACK REPAIR

SAFETY DATA SHEET
EFFECTIVE DATE: January 1, 2015

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: TUFF-KOTE FLEX 10,000
CHEMICAL NAME: ONE COAT/THREE COAT/PATCH AND CRACK REPAIR
MANUFACTURER: Kel-Crete Industries, Inc. dba CJG LP
ADDRESS: PO Box 52217, Tulsa, OK 74152
EMERGENCY PHONE: 800-845-1833
FAX NUMBER: 918-744-0885
RECOMMENDED USE: Plaster/stucco premix system

SECTION 2: HAZARDS IDENTIFICATION

HAZARD OVERVIEW: Tuff-Kote Fiber reinforced Stucco System is a proprietary mixture of Portland cement, sand, fibers, water and proprietary ingredients reinforced with wire fabric or metal lath. May be harmful if ingested, and dust may cause respiratory tract irritation. Exposure of eyes and/or skin to wet cement product may cause chemical irritation and blindness.

OSHA HAZARD CLASSIFICATION: Eye damage Category 1
Skin irritation Category 2
Carcinogenicity Category 1B
Specific Target Organ Toxicity – Repeated Category 1 (lungs)

OSHA HAZARD PICTORGRAM:

WORD: Danger

HAZARD STATEMENTS:

H315: Causes skin irritation
H318: Causes serious eye damage
H350: may cause cancer

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SECTION 2 CONTINUED: HAZARD IDENTIFICATION

H372: May cause damage to lungs through prolonged and repeated inhalation exposure.

PRECAUTIONARY STATEMENTS:

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not eat, drink, or smoke when using this product.
Wear eye protection/face protection (see Section 8). Wear protective gloves/

clothing/eye protection/face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses. If present and easy to do. Continue

Rinsing.

If on skin: Take off clothing immediately. Wash with plenty of water.

If eye or skin irritation persists: Get medical advice/attention

If swallowed: Rinse mouth. Do not induce vomiting.

Do not breathe dust. If inhaled: Remove person to fresh air and keep comfortable for breathing. Get medical advice/Attention.

Wash thorough after handling. Take off contaminated clothing and wash it before reuse.

Store locked up in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations (see Section 13)

OTHER HAZARDS WHICH DO NOT RESULT IN CLASSIFICATION: None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO.	% WT	SARA 313 REPORTABLE
Portland cement	65997-15-1	92%	No
Fly ash	68131-74-8	5%	No
Limestone	1317-65-3	2%	No

Balance of ingredients are present at <1% and are not classified as health hazards.

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SECTION 4: FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention.
SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothes and launder before reuse.
INGESTION: Do not induce vomiting. Seek medical attention.
INHALATION: Remove to fresh air. Seek medical attention.
NOTES: Wet stucco premix exposure to the skin can cause alkali burns. Stucco premix dust can irritate eyes, throat and nose. Hypersensitive individuals may develop an allergic dermatitis.

SECTION 5: FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: For the dried product, use carbon dioxide, dry chemical, or alcohol foam extinguishing media.
SPECIAL FIRE FIGHTING PROCEDURES: Not applicable. The product is not combustible or flammable.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None. The product is not flammable, combustible, or explosive.

SECTION 6: ACCIDENTAL RELEASE MEASURES

GENERAL: For dry material, collect by sweeping and scooping. Transfer collected material to a container, being careful to minimize creation of dust. For wet material, scoop material up and transfer to an open container. Allow material to dry before disposal. Care should be taken to keep spilled products out of sewers, streams, and water systems.

LAND SPILL: Vacuum, shovel or sweep up and place in containers for disposal in accordance with applicable local regulations. Avoid contamination of water bodies during clean up and disposal. No personal protective equipment is needed to clean up land spills.

WATER SPILL: No specific instruction. Care should be taken to keep spilled products out of sewers, streams, and water systems.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Good housekeeping procedures should be followed to minimize dust generation and accumulation. Avoid spills. Do not eat, or smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES: Keep stucco concentrate dry until use. Atmospheric temperatures and pressures do not affect the shelf life of this product. However, moisture contamination will render the product useless.

Storage temperature: Ambient
Storage pressure: Atmospheric
Special sensitivity: Moisture

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA PEL-TWA: 15mg/m³ total dust and 5 mg/m³ respirable dust

ACHIG TLV-TWA-OEL: 5 mg/m³ inhale particles

Cal OSHA PEL-TWA: 10 mg/m³ total dust and 5 mg/m³ respirable fraction.

ENGINEERING CONTROLS AND VENTILATION: Use local exhaust ventilation to keep airborne concentration below permissible exposure limits.

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RESPIRATORY PROTECTION: If personal exposure cannot be controlled below applicable limits by ventilation wear a properly fitted organic vapor/particulate respirator approved by NIOSH for protection.

EYE PROTECTION: Wear eye protection (e.g. safety goggles) to reduce the potential for eye contact.

SKIN PROTECTION: Prevent prolonged or repeated contact by using rubber gloves and appropriate protective clothing.

SECTION 8 NOTES: PEL: Permissible Exposure Limit, TLV: Threshold Limit Value, TWA: Time Weighted Average.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White and/or grey powder

ODOR: No distinct odor.

ODOR THRESHOLD: Not applicable

pH AT AS SUPPLIED: 11.9 (2.0% solid) at 25° C

MELTING POINT/FREEZING POINT: Not applicable.

BOILING POINT AND BOILING RANGE: Not applicable.

FLASH POINT: Not applicable.

EVAPORATION RATE: Not applicable.

FLAMMABILITY: Non-flammable.

UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: Not applicable: non flammable.

VAPOR PRESSURE: Not applicable.

VAPOR DENSITY: Not applicable.

RELATIVE DENSITY: 35 lbs/ft³

SOLUBILITY IN WATER: Dispersible.

SPECIFIC GRAVITY: 2.77

PARTITION COEFFICIENT: n-octanol/water: Unkown.

AUTO-IGNITION TEMPERATURE: Not applicable.

DECOMPOSITION TEMPERATURE: Not applicable.

VISCOSITY: Not applicable: solid substance.

EXPLOSIVE PROPERTIES: Not explosive.

OXIDISING PROPERTIES: Not oxidizing.
MOLECULAR WEIGHT: Not applicable: product is a mixture.
VOC CONTENT: 0 g/l (0.0 lbs/gal)

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: None known.

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STABILITY: The product is stable and does not change under normal storage conditions.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None formed spontaneously. Addition of water may produce calcium hydroxide which can cause chemical burns.

SECTION 11: TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE: Inhalation of dust and dermal exposure are the most significant routes of exposure in occupational and other settings. Incidental ingestion of dust may occur. Personal protective equipment and good hygiene can reduce these exposures significantly.

SYMPTOMS RELATED TO THE PHYSICAL, AND CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS: Wet stucco premix exposure to the skin can cause alkali burns. Stucco premix dust can irritate eyes, throat, and nose. Hypersensitive individuals may develop an allergic dermatitis.

DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE:

Hypersensitive individuals may develop allergic dermatitis. Quartz (crystalline silica) contamination of limestone in excess of 2% may pose a risk for silicosis, a lung disease. This product contains less than 0.1% of silica. Prolonged and repeated inhalation of respirable crystalline silica-containing dust in excess of appropriate exposure limits has been associated with silicosis. Symptoms of silicosis may include, but are not limited to, the following: shortness of breath; difficulty breathing with or without exertion; coughing; diminished work capacity; diminished chest expansion; reduction of lung volume; right heart enlargement and/or failure. Smoking may increase the risk of developing lung disorders, including emphysema and lung cancer. Not all individuals with silicosis will exhibit symptoms (signs) of the disease. However, silicosis can be progressive, and symptoms can appear at any time, even years after exposure has ceased.

Persons with silicosis have an increased risk of pulmonary tuberculosis infection. Several studies of persons with silicosis also indicate an increased risk of developing lung cancer, a risk that increases with the duration of exposure. Some of these studies of silicotics do not account for lung cancer confounders, especially smoking.

ACUTE HEALTH HAZARDS

Portland Cement:

Oral LD₅₀ (rat): >5,000 mg/kg of body weight

Dermal LD₅₀ (rabbit): >2,000 mg/kg of body weight

Inhalation LC₅₀ (rat): >5.8 mg/L

Dermal irritation/corrosivity: Nonirritating, nonsensitizing

Eye irritation: No information found

Fly Ash:

Oral LD₅₀ (rat): >2,000 mg/kg of body weight

Dermal LD₅₀ (rabbit): No information found

Inhalation LC₅₀ (rat): >5.38 mg/L

Dermal irritation/corrosivity: Nonirritating, noncorrosive, nonsensitizing

Eye irritation: Nonirritating

Limestone:

Oral LD₅₀ (mouse): 6,450 mg/kg of body weight

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Percutaneous LD₅₀ (rabbit): No information found

Inhalation LC₅₀ (rat): No information found

Dermal irritation/corrosivity: No information found

Eye irritation: No information found

CHRONIC HEALTH HAZARDS: Crystalline silica can cause a lung condition known as silicosis after long-term exposure to dusts containing crystalline silica. Exposure of workers to crystalline silica containing dusts is specifically regulated by OSHA. The use of a correctly fitted, NIOSH approved respirator suitable for use against crystalline silica inhalation is essential for minimizing exposure to this danger.

Exposure of sufficient duration to wet stucco can cause serious, potentially irreversible tissue destruction of the skin or eye from caustic chemical burns, including third-degree burns. The same type of tissue destruction can occur if wet or moist areas of the body are exposed for sufficient duration to dry stucco concentrate. Wet stucco is caustic and personal protective equipment, and proper work

hygiene, must be employed for protection against personal injury.

REPRODUCTIVE EFFECTS: No reproductive effects from Portland cement, fly ash, or limestone were found in the literature. Other ingredients present at less than 0.1% have not been associated with reproductive effects.

CARCINOGENICITY: Portland cement, fly ash, and limestone are not listed as known or suspected carcinogens by OSHA, ACGIH, NTP, or IARC. Portland cement contains silica which is a human carcinogen by OSHA, ACGIH, and IARC. Other ingredients present at less than 0.1% have not been reported to be carcinogenic. Limestone is not listed as a known or suspected carcinogen by OSHA, NTP, or IARC. Respirable crystalline silica, a component of limestone, is classified as carcinogenic (Group 1) by IARC. NTP lists respirable crystalline silica as a "known human carcinogen". ACGIH lists respirable crystalline silica as a suspended human carcinogen (A-2). These classifications are based on sufficient evidence of carcinogenicity in certain experimental animals and on selected epidemiological studies of workers exposed to crystalline silica.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: Limestone: The LC₅₀ is *Gambusia affinis* (Western mosquito fish) is >56,000 mg/L for 24-96 hours under static conditions.

PHYTOTOXICITY: No information found.

PERSISTENCE AND DEGRADABILITY: Biodegradation is not an applicable endpoint since the product is an inorganic substance.

BIOACCUMULATIVE POTENTIAL: No information available.

MOBILITY IN SOIL: No information available.

OTHER EFFECTS: None.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: This product must be disposed of in accordance with applicable local, state, and federal regulations. Where possible, it is best to use up any excess material.

RCRA HAZARD CLASS: The product is not listed under any section of the Federal Resource Conservation and Recovery Act (RCRA).
CALIFORNIA HAZARDOUS WASTE DESIGNATION: California identifies substances with acute oral, acute dermal, or acute inhalation LD₅₀s less than 2,500, 4,300, or 10,000 mg/kg, respectively as "hazardous wastes". Tuff-Kote Flex 10,000 is therefore a "hazardous waste" if spilled in California, and should be handled in accordance with applicable state regulations. Refer to Regulatory Information for additional information.

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SECTION 14: TRANSPORT INFORMATION

US DEPARTMENT OF TRANSPORTATION: The product is not a US Department of Transportation (DOT) Hazardous Material or Hazardous Substance.

OTHER AGENCIES: The product has not UN Number and is not regulated under international rail, highway, water, or air transport regulations.

SECTION 15: REGULATORY INFORMATION

TSCA NO: All components of this product are listed, or are exempt from listing on the TSCA inventory.

RCRA: Tuff-Kote Flex 10,000 is not listed as a hazardous waste under any sections of the Resource Conservation and Recovery Act or regulations (40) CFR 261 et seq.

SUPERFUND: CERCLA/SARA. Tuff-Kote Flex 10,000 is not listed under CERCLA (the Comprehensive Environmental Response Compensation and Liability Act), or its 1986 amendments, SARA (the Superfund Amendments and Reauthorization Act), including substances listed under Section 313 of SARA, Toxic Chemicals, 42 USC 11023, 40 CFR 372.65; Section 302 of SARA, Extremely Hazardous Substances, 42 USC 11002, 40 CFR 355; or the CERCLA Hazardous Substances list, 42 USC 9604, 40 CFR 302.

SAFE DRINKING WATER ACT: Tuff-Kote Flex 10,000 is not regulated under the SDWA, 42 USC 300g-1, 40 CFR 141 et seq. Clean Water Act (Federal Water Pollution Control Act); 33 USC 1251 et seq.

- Tuff-Kote Flex 10,000 is not itself a discharge covered by any water quality criteria of Section 304 of the CWA, 33 USC 1314
- It is not on the Section 307 of Priority Pollutants, 33 USC 1317, 40 CFR 129
- It is not on the Section 311 List of Hazardous Substances, 33 USC 1321, 40 CFR 116.

OSHA/CAL OSHA: This SDS document meet the requirements of both OSHA (29 CFR 1910.1200) and Cal OSHA (Title 8 CCR 5194g) hazard communication standards. Refer to Exposure Control/Personal Protection for regulatory exposure limits.

IARC: The International Agency for Research on Cancer lists silica dust as a Group 1 carcinogen.

NTP ANNUAL REPORT ON CARCINOGENS: Crystalline silica dust is listed as known human carcinogen.

CALIFORNIA PROPOSITION 65: The following chemicals are present in this coating product in small amounts. These chemicals are listed by the California EPA as materials known to the State of California to cause cancer, and/or birth defects, and/or reproductive harm.

<u>Chemical Name</u>	<u>CAS Number</u>
PORTLAND CEMENT	65997-15-1
FLY ASH	68131-74-8
CALCIUM CHLORIDE	1305-62-0

SECTION 16: OTHER INFORMATION

OTHER INFORMATION: This SDS was finalized on January 1, 2015 and is compliant with OSHA HCS/HazCom Final Rule. This replaces previous version dated January 1, 2013

DISCLAIMER: Information presented herein has been compiled from sources considered dependable and is accurate and reliable to the best of our knowledge and belief, but it is not guaranteed to be so. Nothing herein is to be construed as recommending any practice or any product in violation of any law or regulation. It is the user's responsibility to determine the suitability of any material for a specific purpose and adopt necessary safety precautions. We make no warranty as to results to be obtained in using any material and since conditions or use are not under our control, we must necessarily disclaim all liability with respect to use of any material supplied by us.

Kel-Crete Tuff-Kote Flex 10,000 is manufactured for Kel-Crete Industries, Inc. by Incide Technologies, Inc. per contract formulations provided by Kel-Crete Industries, Inc. dba C/JG LP.

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