



# AMERICAN COATINGS CORPORATION

Serving the Environmental Control Industry Since 1979

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## EARTH-KOTE PROCESS

### Soil Encapsulation Process

(U.S. Patent #4,477,490)

The EARTH-KOTE PROCESS is a patented, 3 step application which generates a non-skid, monolithic surface. Its consolidation of the soil's contaminated surface layer restricts the potential of treated asbestos fibers from becoming airborne.

EARTH-KOTE 1 and EARTH-KOTE 2 have been developed to penetrate into the soil's surface layer, chemically react with each other and the soil, and bind the treated fibers in place. EARTH-KOTE 3 is a built up latex coating which quickly adheres to the newly encapsulated surface and forms a protective membrane over the soil.

Areas treated with EARTH-KOTE should be completely functional for the activities normally undertaken in crawl spaces, such as moderate maintenance work and insulation repair. When the EARTH-KOTE PROCESS has dried, it is highly resistant to the actions of water and solvents. Additionally, when cured, the surface formed by EARTH-KOTE should be capable of withstanding the movement of light maintenance equipment, such as lightweight carts and wheel barrels.

In direct contrast to the costly and time consuming alternatives associated with contaminated soil, the EARTH-KOTE PROCESS is an inexpensive, effective method for limiting exposure to soil which has been contaminated with asbestos fibers.

#### EQUIPMENT:

Airless Spray Pump: 3:1 or 4:1 Ratio  
2800-3000 psi

Hose Size: 3/8" Inner Diameter

Spray Gun: Standard Paint Gun with Reverse-A-Clean

Tip Size: Earth Kote 1 .017 to .019  
Earth Kote 2 .017 to .019  
Earth Kote 3 .031 to .035

**Flush Thoroughly With Water Following Each Step**

#### COLOR

Earth-Kote 1	Clear
Earth-Kote 2	Clear
Earth-Kote 3	Black

#### APPROXIMATE COVERAGE (Ft<sup>2</sup>/Gallon)\*

Earth-Kote 1	20-40
Earth-Kote 2	20-40
Earth-Kote 3	40

#### SOLIDS BY WEIGHT

Earth-Kote 1	31.5%
Earth-Kote 2	44.4%
Earth-Kote 3	53.0%

#### WEIGHT PER GALLON

Earth-Kote 1	10.8 lbs
Earth-Kote 2	11.3 lbs
Earth-Kote 3	10.4 lbs

#### ODOR, WET

Earth-Kote 1	Mild
Earth-Kote 2	Mild
Earth-Kote 3	Mild Latex

#### ODOR, DRY

Earth-Kote 1	None
Earth-Kote 2	None
Earth-Kote 3	None

#### CLEAN-UP

Water

\* Rates of coverage, especially for Earth-Kote 1 and Earth-Kote 2, are approximate and depend entirely upon field conditions. As with any abatement process, we strongly recommend trial applications to determine the procedure's desirability and most effective coverage rates. Refer to Material Safety Data prior to usage. Complete directions are available upon request.



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## **EARTH-KOTE PROCESS**

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#### **APPLICATION SUGGESTIONS**

The application of the EARTH-KOTE PROCESS shall be executed in accordance with all Federal, State and Local regulations governing the safe and proper handling of asbestos-containing materials.

1. Carefully clean all loose debris from the intended work area. Place all debris into acceptable containers. Seal containers and properly dispose of same.
2. Level the surface soil layer in the work area, eliminating peaks and valleys. Do not tamp down.
3. All standing water must be eliminated from the work area.
4. Adjust equipment to the lowest possible output setting still capable of spraying the materials. Keep the spray gun perpendicular to the surface intended to be treated.
5. Apply EARTH-KOTE 1 in continuous passes until saturation (slight surface accumulation) is achieved. Allow sufficient time, usually less than an hour, for EARTH-KOTE 1 to soak into the soil. **DO NOT ALLOW EARTH-KOTE 1 TO DRY PRIOR TO APPLYING EARTH-KOTE 2.**
6. Once EARTH-KOTE 1 has soaked into the soil, apply EARTH-KOTE 2 at the same coverage rate as EARTH-KOTE 1. Use continuous passes until saturation (slight surface accumulation).
7. Allow the treated area(s) to cure until the ground has hardened, usually 12 to 24 hours. Time will be dependent upon physical conditions.
8. Apply EARTH-KOTE 3 to the treated surface to a minimum dry film thickness of 20 mils. Sand should be spread during this application to enhance the membrane, Allow sufficient time for EARTH-KOTE 3 to cure before re-entry. Time will be dependent upon physical conditions.

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▶ *The EARTH-KOTE PROCESS is not recommended for sandy or beach-like conditions.*

▶ Light, powdery layer of soil must be removed prior to applying the EARTH-KOTE PROCESS.

▶ Trial applications are strongly recommended to determine the procedure's desirability and most effective coverage rate for each step. Variations in soil will dictate lighter and/or heavier application rates for EARTH-KOTE 1 & 2. Always apply EARTH-KOTE 3 to a minimum of 20 mils dry film thickness.

▶ When soil conditions are very hard and/or dry, they should be dampened with a light mist of amended water before the application of EARTH-KOTE 1. This should improve penetration. Avoid creating standing water.

**FLUSH EQUIPMENT THOROUGHLY WITH WATER BETWEEN EACH STEP.  
DO NOT ALLOW PRODUCTS TO REACT WITH EACH OTHER OR TO DRY IN EQUIPMENT**



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## EARTH-KOTE PROCESS

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### Description & Equipment

CATEGORY	EARTH-KOTE 1	EARTH-KOTE 2	EARTH-KOTE 3
Color	Clear	Clear	Black
Approximate Coverage*	20-40 ft <sup>2</sup> /Gallon	20-40 ft <sup>2</sup> /Gallon	40 ft <sup>2</sup> /Gallon
Solids, by Weight	31.5%	44.4%	58%
Weight per Gallon	10.8	11.3	10.4
Viscosity, cps	50	30	5000
Odor, wet	Mild	Mild	Mild Latex
Odor, dry	None	None	None

\* Rates of coverage, especially for EARTH-KOTE 1 and EARTH-KOTE 2, are approximate and depend entirely upon field conditions. Trial applications are strongly recommended to determine the procedure's desirability and most effective coverage rate for each application.

#### **CAUTION:**

Do not add water. The addition of water changes the physical properties of these materials and adversely affects their performance.

#### **EQUIPMENT RECOMMENDATIONS**

Airless Spray Pump: 3:1 Ratio 2800-3000 PSI  
Hose Size: ¼" to ½" Inner Diameter  
Spray Gun: Standard Paint Gun  
Tip Size: .017 for EK 1 & EK 2 .031 for EK-3

***FLUSH EQUIPMENT THOROUGHLY WITH WATER BETWEEN EACH STEP!***

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