



SHIELDKOTE™

GENERAL PURPOSE EPOXY COATING SYSTEM

SHIELDKOTE®—ALL-PURPOSE COATING & SEALER

EXTRA STRONG
20ML
— COATING —
(2 COATS)

FULLY CURED
24-48 HOURS
(AT A TEMPERATURE OF 70°F)

100%
MAXIMUM BOND
STRENGTH
—
SELF LEVELING

ULTRA LOW VOCs
AND NO FOUL ODORS
—
ANTIBACTERIAL / ANTIMICROBIAL

UV
STABLE

1 UNIT (3 GALLONS)
OF PARTS A/B MIXED covers a max of 480 sq/ft

**TRUSTED BY AMERICA'S
LARGEST CORPORATIONS**

LOW ENVIRONMENTAL IMPACT



SAFERESIN™
**A REVOLUTION IN
COATING TECHNOLOGY.**

**WELCOME TO THE NEXT
LEVEL OF COATING INNOVATION.**

When we set out to advance epoxy resin technology, we knew we had to start at the foundation. So we looked at the chemistry behind the material and discovered ways in which it could be improved. The result—SafeResin™. Safer, Stronger, Faster, and Easier. The resin technology that is anything but ordinary.

ALL OUR COATINGS ARE SUPER CHARGED BY SAFERESIN TECHNOLOGY.



**WE'RE VERY PROUD OF OUR
GREEN SEAL CERTIFICATION.**

This product meets Green Seal™ Standard GS-47 based on effective performance, recycled packaging, and protective limits on VOCs and human toxicity. GreenSeal.org

Green Seal offers certification for the products, services, and companies that meet Green Seal standards. The Green Seal mark represents compliance with a rigorous set of criteria designed to achieve leadership levels in sustainability. Those that have been certified have met the same performance and quality requirements you would expect from the traditional, non-green counterparts due to the performance criteria in each of the Green Seal standards.

CONTRIBUTES TOWARD VITAL LEED PROJECT POINTS

LEED BD+C / Low Emitting Materials: 3 Points

LEED ID+C / Low Emitting Materials: 3 Points

(supporting documentation available upon request)

Learn more about Leed Certification at: leed.usgbc.org



MIX RATIO 2:1

RECOMMENDED SUBSTRATES

**Concrete, Stone, Masonry, Steel,
Stainless Steel, Wood Decking,
Plywood, Pressboard, Slatboard**

800-659-8270 WWW.KOREKOTE.COM

ShieldKote is a 100% solids, extremely low VOCs, fast curing, technologically advanced epoxy coating developed with SafeResin technology at its core.

This coating product has been specifically formulated to meet the requirements as a high performance moisture barrier on masonry and concrete surfaces. ShieldKote provides excellent flexibility and enhanced elasticity for lining applications on concrete surfaces that experience routine thermal or mechanical expansion and contraction.

USES

- Coating of concrete walls
- Coating of cinder block walls
- Coating of Concrete
- Coating of wood decks and patios

BENEFITS

- Excellent bond strength / adhesion
- Excellent abrasion resistance
- Impenetrable to wide range of chemicals and solvents
- UV Stable
- Thick-film, single coat application (20 mils)
- Fast Curing (put into service in 10 -12 hours)
- High temperature stability
- Low/no VOCs
- Completely solid cured product (no microscopic pin holes)

TECHNICAL DATA

Weight (lbs/gal).....	9.0
Volume Solids.....	100%
Color(s).....	Grays, Tans, White, Blues
Flash Point.....	> 200° F (93°C) (ASTM D3941)
Hardness (Shore D min.).....	75 – 80 (ASTM D2240)
Pot Life (@ 70° F).....	25 min
Pot Life (@ 100° F).....	15 min
VOC (mixed lbs/gal).....	0.35*
VOC (mixed g/l).....	42.4*
Recommended Thickness.....	10 – 20mils DFT
Tensile Strength (Ultimate).....	5420 psi (ASTM D638)
Compression Strength (Yield).....	7665 psi (ASTM D695)
Temperature Resistance	
Non-Immersion dry heat.....	300° F (149° C) (ASTM D2485)

* If working in a well ventilated area the VOC emissions are effectively zero based on an 8 hour metered OSHA air quality test that produced a 0 PEL reading.

COVERAGE

1 unit (3 gallons) of parts A/B mixed covers:	<ul style="list-style-type: none">• Theoretical: 480 sq/ft• Minimum: 400 sq/ft• Maximum: 480 sq/ft
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When ordering product, make allowances for any loss of material due to overspray, surface irregularities, etc. (approx. 15 – 20%)

RECOMMENDED SYSTEMS

CONCRETE

1 Unit....BaseKote Epoxy Primer covers a max of 500 sq ft/unit

1 Unit....ShieldKote Epoxy Coating covers a max of 480 sq ft/unit

WOOD

1 Unit....BaseKote Epoxy Primer covers a max of 500 sq ft/unit

1 Unit....ShieldKote Epoxy Coating covers a max of 480 sq ft/unit

STEEL

1 Unit....BaseKote Epoxy Primer covers a max of 500 sq ft/unit

1 Unit....ShieldKote Epoxy Coating covers a max of 480 sq ft/unit

MASONRY

1 Unit....BaseKote Epoxy Primer covers a max of 500 sq ft/unit

1 Unit....ShieldKote Epoxy Coating covers a max of 480 sq ft/unit

Note: If substrate is in poor condition (i.e. pitted, splintered, etc.) BondKote mastic and filler would need to be applied to fill holes and divots.

ORDERING INFORMATION

PACKAGING

Part A Resin 2 gallons (7.56L) contained in 5 gal pail

Part B Hardener 1 gallon (3.78L) contained in 2 gal pail

Mixed: 9 lb/gal : 2.38 lb/L

SURFACE PREP INSTRUCTIONS

All surfaces must be cleaned and dry, free of dust, dirt, oil or other foreign matter. Concrete should be etched with KoreKote Concrete Cleaner. Primer may be required for some concrete surfaces depending on the surface grade quality.

MIXING INSTRUCTIONS

Mix **2:1 ratio** by volume of **Part A (resin)** and **Part B (hardener)** together. Mix thoroughly until uniform color and consistency throughout. Mechanical mixing (drill with mixing paddle) is critical.

Mechanically pre-mix both Part A and Part B components individually for approx. 1 minute. Then mix combined compound with mechanical mixer at 400-600 rpm for 3 to 4 minutes. Mechanical mixing blades are recommended.

APPLICATION

Pour mixed material in a straight line 2 – 3 feet from the desired starting edge of the area being coated. Use lint free 3/8" nap roller on roller frame and spread material evenly over surface. Use brush to do cut-ins along edges and corners if necessary. When material is spread out in a thinner layer, the worklife is extended to approximately 40 minutes (do not apply in temperatures below 50°F). For detailed handling and safety instructions, please refer to the product **SDS Documents**.

Downloaded SDS at: www.korekote.com/download

APPLICATION TEMPERATURE

The curing profile of KoreKote® coating products will vary depending upon the ambient conditions of your project, including temperature and humidity. To achieve the best cure result follow the recommended cure cycle time and conditions on the TDS that came with your order. Always run a test before full application is initiated. Also, substrate temperatures can have a significant impact on curing profile – make sure your substrate is within recommend temperature ranges before applying a KoreKote® coating product.

POT LIFE

Pot life of mixed coating is approximately 20 minutes at 70°F if material is left as a unit in mixing container. Higher temperatures reduce pot life and accelerate curing. CAUTION: Mixing large quantities (more than a 3 gallon batch size) generates significant heat and shortens pot life.

Do not leave large quantities of mixed material in its container beyond its pot life, as significant heat will be generated and can melt container or cause a safety hazard.

CLEANUP

Use denatured alcohol (not necessary to use harmful/toxic solvents) to cleanup uncured material and tools. For small amounts of excess product, mix Part A and Part B according mixing instructions. Allow material to solidify prior to disposal. DO NOT use solvents to clean epoxy from skin. Consult MSDS and TDS for complete handling and safety information.

STORAGE

The minimum shelf life of 24 months can be achieved provided the material remains stored in closed containers, in a dry environment, out of direct sunlight and at stable temperatures between 50° to 100°F. If product is exposed to temperatures below 50° F crystallization of the material may occur. Crystallization can be reversed with no adverse affects to the material if it is placed in elevated temperatures of 120° to 150° F for a short period of time. Ensure product has returned to its original pre crystallization state prior to application.

APPLICATION EQUIPMENT

ShieldKote can be applied using several different methods depending on the specific application and project requirements. If an automated sprayer is used, changes in pressure and tip sizes may be necessary to achieve desired spray characteristics. Always purge spray equipment before use with Denatured Alcohol.

RECOMMEND CLEANING AGENT

Denatured Alcohol

AIRLESS/AUTOMATED SPRAYER

Pressure 2500 psi

Hose 3/8" ID

Tip015" - .021"

Filter 60 mesh

Reduction..... Not recommended

BRUSH

Nylon/Polyester or Natural Bristles

Cleaning Agent: Denatured Alcohol

ROLLER

Specs: 3/8" woven nap with solvent resistant core (designed specifically for epoxy application)

Cleaning Agent: Denatured Alcohol

PERFORMANCE

Service temperature	-67° – 600°F (depending on the application)
Impact resistant	Yes
Water seal	Yes
Solvent and chemical spill resistant	Yes
Oil and gas spill resistant	Yes
UV resistant	Yes

LIQUID PROPERTIES

Form	Semi-thick liquid
Non-drip	Yes
Low/no VOCs	Yes
Viscosity	at 77°F (25°C) Part A 800 cP / Part B 300 cP/ Mixed 595 cP
Pot life	20 minutes
Gel time	40 minutes
Full cure time	24 – 48 hours (depending on temperature and application)
Shelf life	24 months
Cure method	Chemical reaction
Application temperature	50° – 80°F

CURED PROPERTIES

Finish	Gloss
Permeable	No
Can be painted/stained	No
Fills gaps	Yes
Removable	No
Flexible	Yes
Antibacterial	Yes
Flash Point	> 200°F (93°C) (ASTM D3941)

MIXING & HANDLING

Number of components	2
Mix ratio	2:1
Application methods	Roller, brush, machine sprayer

MINIMUM DRY TIME

70° F and 50% relative humidity. (ASTM D1640)

To Touch: 2 hours

To Handle: 4 hours

To Recoat: 8 hours

CURE SCHEDULE

Shore D 75 – 80 (ASTM D2240) @ 70° F and 50% relative humidity. For Immersion Service: 11 hours.

Shore D 75 – 80 @ 100° F and 50% relative humidity. For Immersion Service: 9 hours.

POST CURING

It is not necessary for most applications, however ShieldKote may be post cured to expedite curing and increase chemical resistance for extremely aggressive environments. Post cure for minimum of 2 hours at 250° F or 6 – 8 hours at 150° F for maximum resistance.

RE-COAT SCHEDULE (Approx.)

Substrate Temperature**		Re-Coat Time		Cure Time*
°F	°C	Minimum	Maximum	
50°	10 – 15°	8 hrs	12 hrs	28 hrs
60°	16 – 20°	2 hrs	8 hrs	16 hrs
70°	18 – 24°	2 hrs	4 hrs	11 hrs
90°	27 – 32°	2 hrs	3 hrs	10 hrs
100°	38– 43°	1.5 hrs	2 hrs	9 hrs

* Cure times may vary – cure long enough to achieve a minimum Shore D Hardness of 75 – 80. See Post Cure section to expedite curing with heat and increase chemical resistance for aggressive chemicals.

** Final cures below 50° F (16° C) are not recommended for tank linings

DRY & CURE TIMES (Mix At Ambient Temperature/Approx.)

Substrate	Tack Free	Set	Cure
50° F	4.5 hrs	8.5 hrs	28 hrs
70° F	2 hrs	4.5 hrs	17 hrs
90° F	1 hrs	2 hrs	10 hrs
150° F	16 min	21 min	1.5 hrs
200° F	7 min	10 min	1.5 hrs

APPLICATION TEMPERATURE

Apply at 5° F (3° C) above dew point. The following chart provides the preferred conditions for temperature and humidity. The conditions provided in the chart along with good circulation are important to maintain throughout the cure cycle.

	Coating	Substrate	Ambient	Humidity
Preferred	95 – 105° F	50 – 120° F	70 – 100° F	0 –90%
Minimum	90° F	55° F	55° F	0%

DISCLAIMER

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

+ SUGGESTED FIRST AID

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CONTROL CENTER if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice. Immediately call a doctor.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor.

For detailed handling and safety instructions, please refer to the product SDS Documents. Downloaded SDS at: www.korekote.com/download

!!! WARNING



May cause an allergic skin reaction. Causes skin and serious eye irritation. Specific treatment (see FIRST AID section on this label). Avoid breathing vapors. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves and eye protection. Wash hands and exposed skin thoroughly after handling. Dispose of container in accordance with local regulations. For detailed handling and safety instructions, please refer to the product SDS Documents. Downloaded SDS at: www.korekote.com/download

!! KEEP OUT OF REACH OF CHILDREN !!

CONTAINS: Reaction products of Epichlorohydrin and Bisphenol, Alkyl Glycidyl Ether.

DISCLAIMER

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

WARRANTY

KoreKote, Inc. warrants its products to be free of manufacturing defects in accord with applicable KoreKote quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by KoreKote.

NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY KOREKOTE, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.