



Fibered Elastomeric Deck Coating

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Conversion Table

| Wet Mils | Dry Mils | Gallons/100 Sq. Ft. |
|----------|----------|---------------------|
| 45 | 25 | 2 ½ |
| 36 | 20 | 2 |
| 27 | 15 | 1 ½ |
| 18 | 10 | 1 |

Note

Surfaces that are porous may absorb some of the material, thus requiring an increase of wet mils in order to attain the desirable dry mil thickness.

Caution

Do Not apply if surface temperature is 55°F or lower.

Do Not apply if the temperature is expected to drop below 35°F within a 48-hour period.

Do Not apply if rain is forecasted within a 24-hour period.

Do Not use Wet or a combination of Wet/Dry Roofing Cement where roofing cement is needed.

Incidental Ponding Water

Water that remains on the deck for more than 72 hours (3 days) under dry weather conditions (77°F, 50% relative humidity) is considered "Incidental Ponding Water." If water remains for a longer period we recommend installing internal drains.

Paint Roller Application

With most paint roller applications, a two-coat method is recommended to provide a uniform dry film finish. A "cross hatch" application will help prevent the likelihood of "pinholing."



Three Course

In order to qualify for a deck to be water tight, three coursing is required around drains, jacks, vents and all protrusions on the deck. Three Coursing with **Galacti-Kote®** and polyester fabric should also be used for general repairs of deck membrane.

Preparation

Surfaces around drains, jacks, vents and all protrusions on the deck must be properly cleaned before any application. Power wash the surface with clear water or scrub with clear water and a brush.

Application

Three course around drains, jacks, vents, all protrusions and general deck repairs with **Galacti-Kote®** and TIETEX™ T-272 polyester fabric.

Step 1 Base Coat & Polyester Fabric

Apply approximately 27 wet mils of product. While wet, embed polyester fabric into the **Galacti-Kote®**. The polyester TIETEX™ T-272, roofing fabric should be used.

Step 2 Wait

For best results, after applying the base coat and polyester fabric, wait a minimum of 4 hours in 77°F and 50% relative humidity before applying another 27 wet mils. Longer time will be needed in cooler weather and/or higher humidity.

Step 3 Top Coat

Apply a topcoat of 27 wet mils. When "Three Course" is dry the total dry film thickness should not be less than 30 mils.

Note Field of Deck Coating

Before applying field of the deck coating over the Three Coursed area, allow at least 24 hours for the Three Course to cure in 77°F and 50% relative humidity weather. Longer curing time may be necessary in cooler weather and/or higher humidity.



APP Smooth Modified Bitumen Decks

Preparation

Wait at least 48 hours after application of APP (Atactic Polypropylene) smooth modified bitumen deck membrane before applying **Ty-Zon Primer** and **Galacti-Kote®**.

All surfaces must be properly cleaned before any application. Deck repairs must be made before cleaning is done to insure no interior water damage. Power wash the deck's surface with clear water.

Prime entire deck with **Ty-Zon Primer** at a rate of 300 square feet coverage per gallon. Before priming with **Ty-Zon Primer** make sure surface is clean and dry. Refer to Technical Bulletin "Ty-Zon Primer" (page 16) for instructions on preparing and applying this primer.

Ty-Zon Primer does not need to be completely dry prior to starting application of **Galacti-Kote®**. It can be slightly tacky.

After the application of **Ty-Zon Primer** refer to "Three Course" Application Instructions (page 3).

Application

In hot sunny weather it is best to apply a "mist" coat of **Galacti-Kote®** at a minimum rate of 9 wet mils thickness ($\frac{1}{2}$ gallon per 100 sq. ft.). Let dry completely, normally two hours or less.

Apply a second coat at a minimum rate of 27 wet mils thickness ($1 \frac{1}{2}$ gallons per 100 sq. ft.).

Total dry film thickness including "mist" coat should not be less than 20 mils. This will require a minimum of 2 gallons of **Galacti-Kote®** per 100 square feet.



Patio And Walk Decks

(Applied Directly Over Plywood)

Plywood shall be exterior grade (top surface preferably "A" grade) and shall be designed and fabricated in accordance with the recommendations of the American Plywood Association, minimum thickness 3/4 inch.

Preparation

All plywood sheets shall be bearing on rafters at each end and be securely nailed. A plywood deck is not satisfactory if plywood sheets bend under an average man's weight. All nails shall be galvanized and nail heads shall be flush or slightly recessed into plywood. Screw down fasteners may be used in place of galvanized nails. Prime non-galvanized nails with rust inhibitor. Before application make certain all dirt, sawdust, oils and wax are completely removed. Do not power wash, rather sweep clean and/or use backpack blower. Plywood decks must be kept dry prior to coating. Where plywood butts against each other and there is a gap greater than 1/16-inch use an exterior grade urethane caulking to fill the gaps. Let the caulking set up and dry thoroughly, normally 24 hours.

Application

- Step 1** Apply **Galacti-Kote®** at a minimum rate of 27 wet mils thickness (1 ½ gallons per 100 sq. ft.). Embed TIETEX™ T-272 Polyester Fabric into the coating. The entire deck should be covered with TIETEX™ T-272. If you overlap the polyester fabric it may result in a visible grid pattern. To avoid a grid pattern from appearing, place the edges of the polyester fabric next to each other without overlapping. Make certain that where the two edges of the polyester fabric come together that are at least 6 inches away from plywood joints.
- Step 2** After **Galacti-Kote®** has dried; apply a second coat at a minimum rate of 45 wet mils (2 ½ gallons per 100 sq. ft.). If using a paint roller it may require a two-coat application (1 ¼ gallons per 100 sq. ft. per coat). Let dry thoroughly. When the coating has thoroughly dried, there should not be any fabric telegraphing through dried coating.
- Step 3** Apply **Galacti-Kote®** at a minimum rate of 9 wet mils thickness (1/2 gallon per 100 sq. ft.). While wet cover with 20 or 16 mesh sand or crushed walnut shells. Let dry thoroughly.
- Step 4** When coating is dry, sweep off loose sand or walnut shells. Then apply an additional 9 wet mils (1/2 gallon per 100 sq. ft.).



Patio And Walk Decks

(Applied Directly Over Concrete)

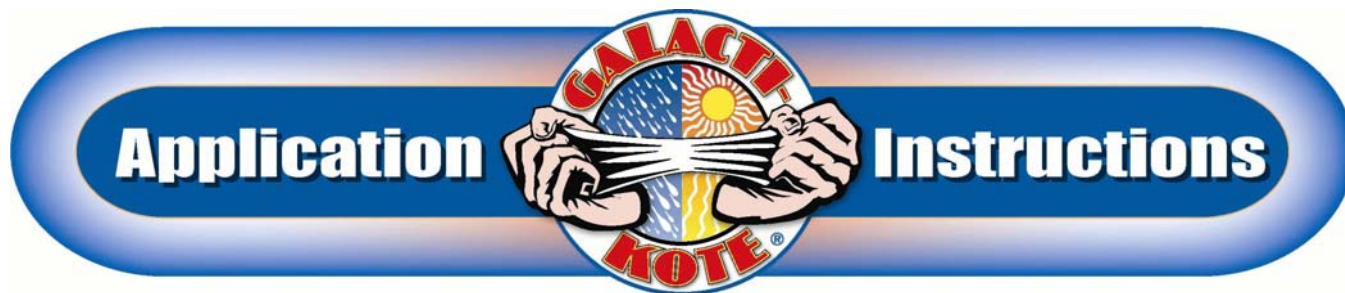
New Concrete requires a minimum waiting period of 28 days curing time prior to applying **Ty-Zon Primer** and **Galacti-Kote®**. Concrete on the ground must have a vapor barrier underneath.

Preparation

All surfaces must be properly cleaned before any application. Power wash with clear water and let dry completely before application. If concrete has efflorescence remove it by washing with 10 % solution of muriatic acid, rinse thoroughly and allow to dry. Assure all joints are water tight before application. Exterior caulking or weather stripping can be used. For additional information regarding moisture in concrete refer to Technical Bulletin "Concrete" (page 19). Prime the concrete with **Ty-Zon Primer** prior to applying **Galacti-Kote®**. Depending on how porous the concrete is, apply **Ty-Zon Primer** at a rate of 200 to 300 square feet per gallon. Refer to Technical Bulletin "Ty-Zon Primer" (page 16).

Application

- Step 1** Apply **Galacti-Kote®** at a minimum rate of 27 wet mils thickness (1½ Gallons per 100 sq. Ft.). Embed TIETEX™ T-272 polyester fabric into the coating. The entire deck should be covered with TIETEX™ T-272 polyester fabric into the coating.
- Step 2** After **Galacti-Kote®** has dried, apply a second coat at a minimum rate of 45 wet mils (2 ½ gallons per 100 sq. ft.). If using a paint roller it may require a two-coat application (1 ¼ gallons per 100 sq. ft. per coat). Let dry thoroughly. When the coating has thoroughly dried, there should not be any fabric telegraphing through dried coating.
- Step 3** Apply **Galacti-Kote®** at a minimum rate of 9 wet mils thickness (1/2 gallon per 100 sq. ft.). While wet, cover with 20 or 16 mesh sand or crushed walnut shells. Let dry thoroughly.
- Step 4** When coating is dry, sweep off loose sand or walnut shells. Then apply additional 9 wet mils (1/2 gallon per 100 sq. ft.).



Reinforcement Using Single Layer Of Polyester Fabric

This method of application is used prior to applying the normal amount of coating as prescribed in *Application Instructions* for a specific deck surface. It can be used to help reinforce high stress areas such as ridges, valleys and where walls and deck meet.

Preparation

All surfaces must be properly cleaned before any application.

Application

Step 1 Base Coat & Polyester Fabric

Apply approximately 27 mils of **Galacti-Kote®** (1½ gallons per 100 sq. ft.) While wet, place in polyester fabric. The polyester roofing fabric, TIETEX™ T- 272 should be used.

Step 2 Wait

For best results, after applying the base coat and polyester fabric, wait a minimum of 4 hours in 77°F and 50% relative humidity before going to Step # 3. Longer time will be needed in cooler weather and/or higher humidity.

Step 3 Top Coat

Apply a topcoat of 27 wet mils (1½ gallons per 100 sq. ft.). When topcoat is dry, the total dry film thickness should not be less than 30 mils.

Note: Field Of Deck Coating

Before applying field of the deck coating over the reinforced area allow at least 24 hours drying time.



Reinforcement Using Double Layer of Polyester Fabric

This method of application is used prior to applying the normal amount of coating as prescribed in Application Instructions for a specific deck surface. It can be used to help reinforce high stress areas such as ridges, valleys and where walls and deck meet. Also, this double layer of polyester fabric system can be used to repair field of deck where deck membrane is deteriorating.

Preparation

All surfaces must be properly cleaned before any application.

Application

Step 1 Base Coat & Polyester Fabric

Apply approximately 27 wet mils of **Galacti-Kote®** (1½ gallons per 100 sq. ft.). While wet, place in polyester fabric. The polyester roofing fabric, TIETEX™ T-272 should be used.

Step 2 Wait

For best results, after applying the base coat and polyester fabric, TIETEX™ T-272, wait a minimum of 4 hours in 77°F and 50% relative humidity before going to Step #3. Longer time will be needed in cooler weather and/or higher humidity.

Step 3 Top Coat

Apply a topcoat of 27 wet mils (1½ gallons per 100 sq. ft.) When topcoat is dry, the total dry film thickness should not be less than 30 mils.

Step 4 Repeat Step 1

Step 5 Repeat Step 2

Step 6 Repeat Step 3

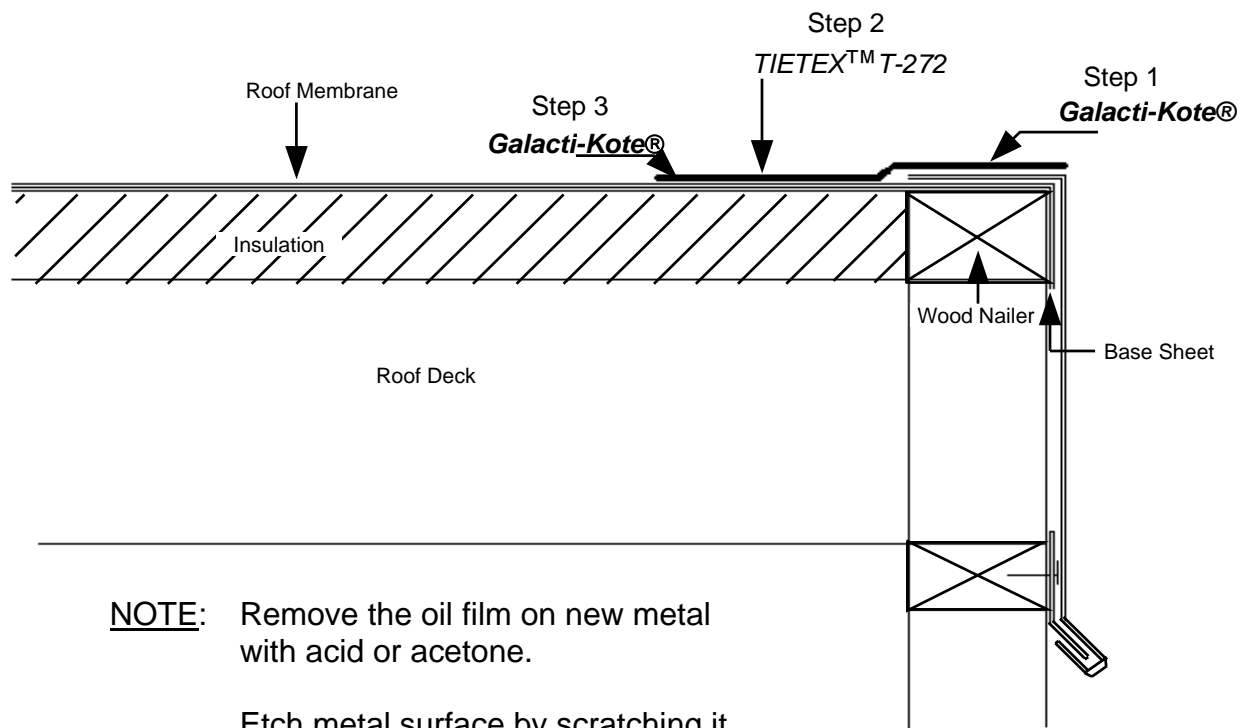
Total dry film thickness should not be less than 60 mils. Use "Cross Hatch Method"; apply polyester fabric running at a 90° angle from the first layer of the fabric.

Note Field Of Deck Coating

Before applying field of the deck coating over the reinforced area allow at least 24 hours drying time.



NOTE: For recommended wet mils refer to "Three Course" instructions (page 3).



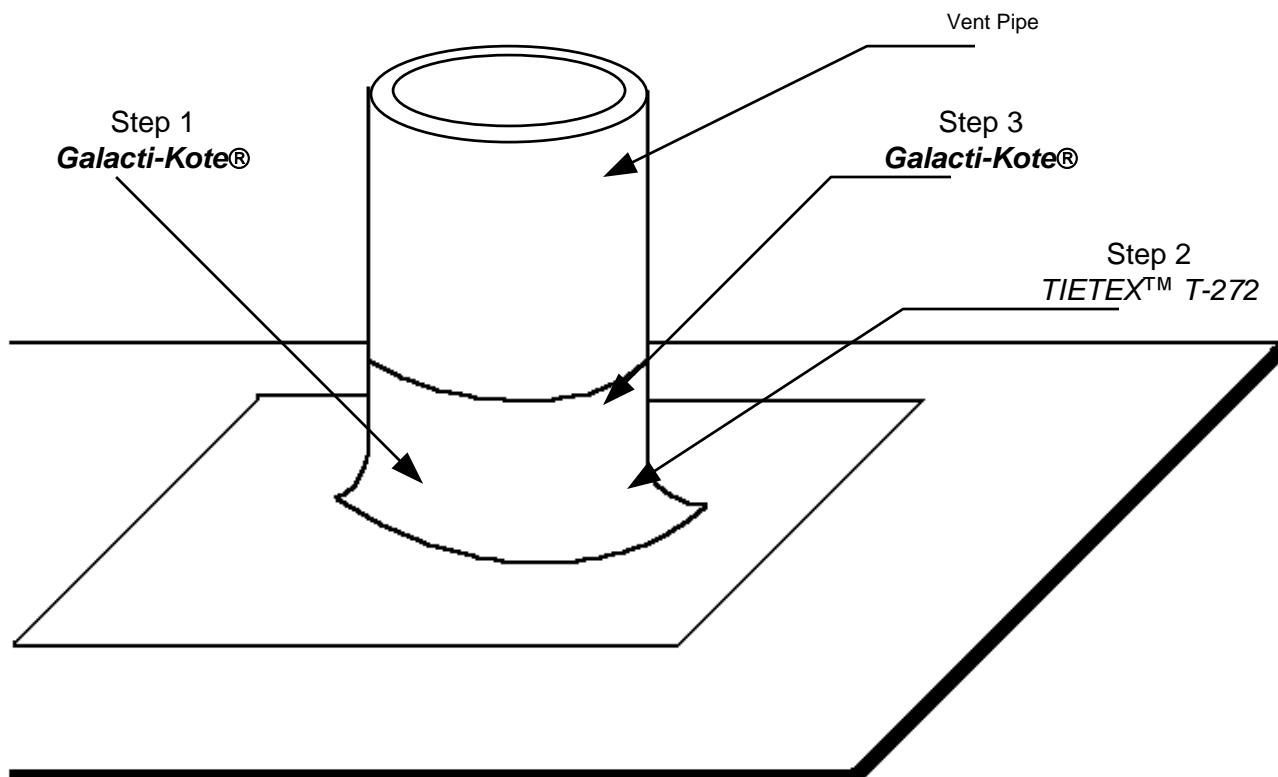
NOTE: Remove the oil film on new metal with acid or acetone.

Etch metal surface by scratching it with medium to coarse (40 to 80 grit) sandpaper.



Application Instructions

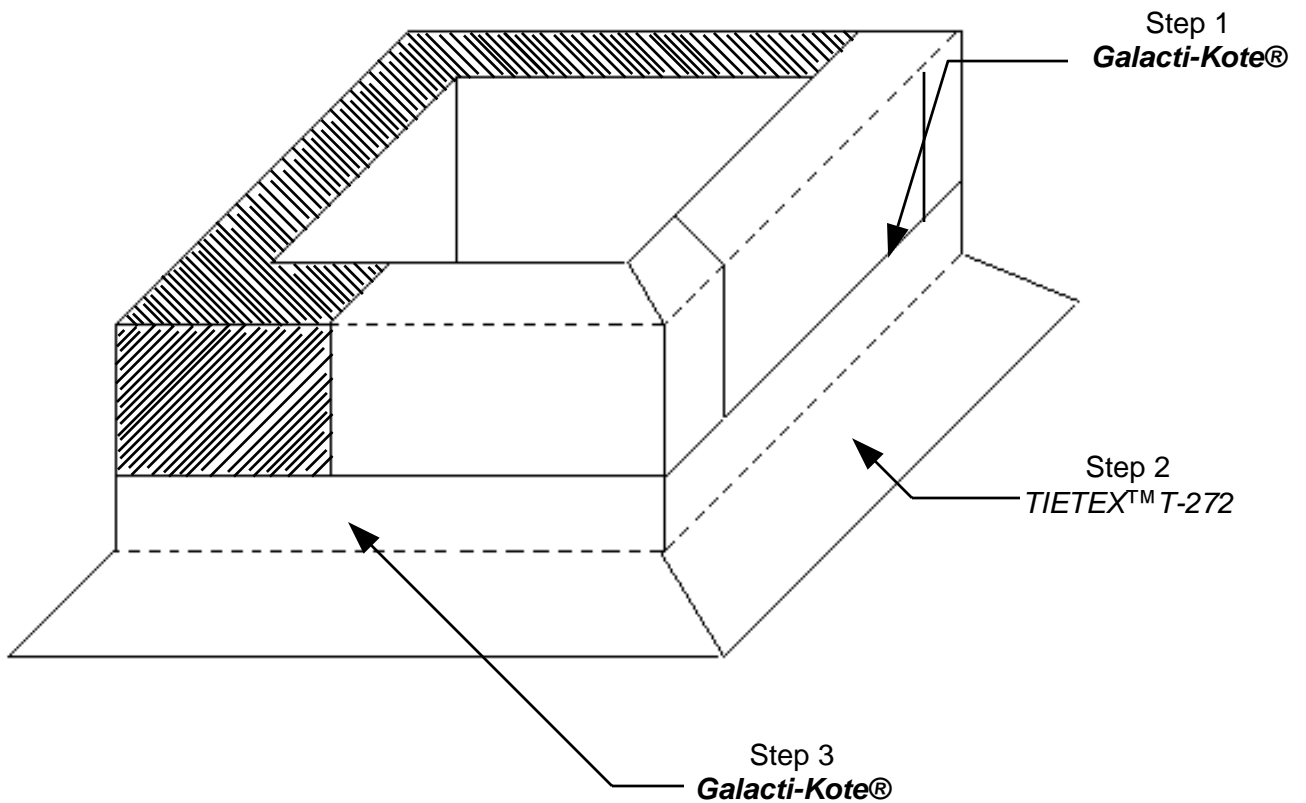
NOTE: For recommended wet mils refer to "Three Course" instructions (page 3).



Application Instructions



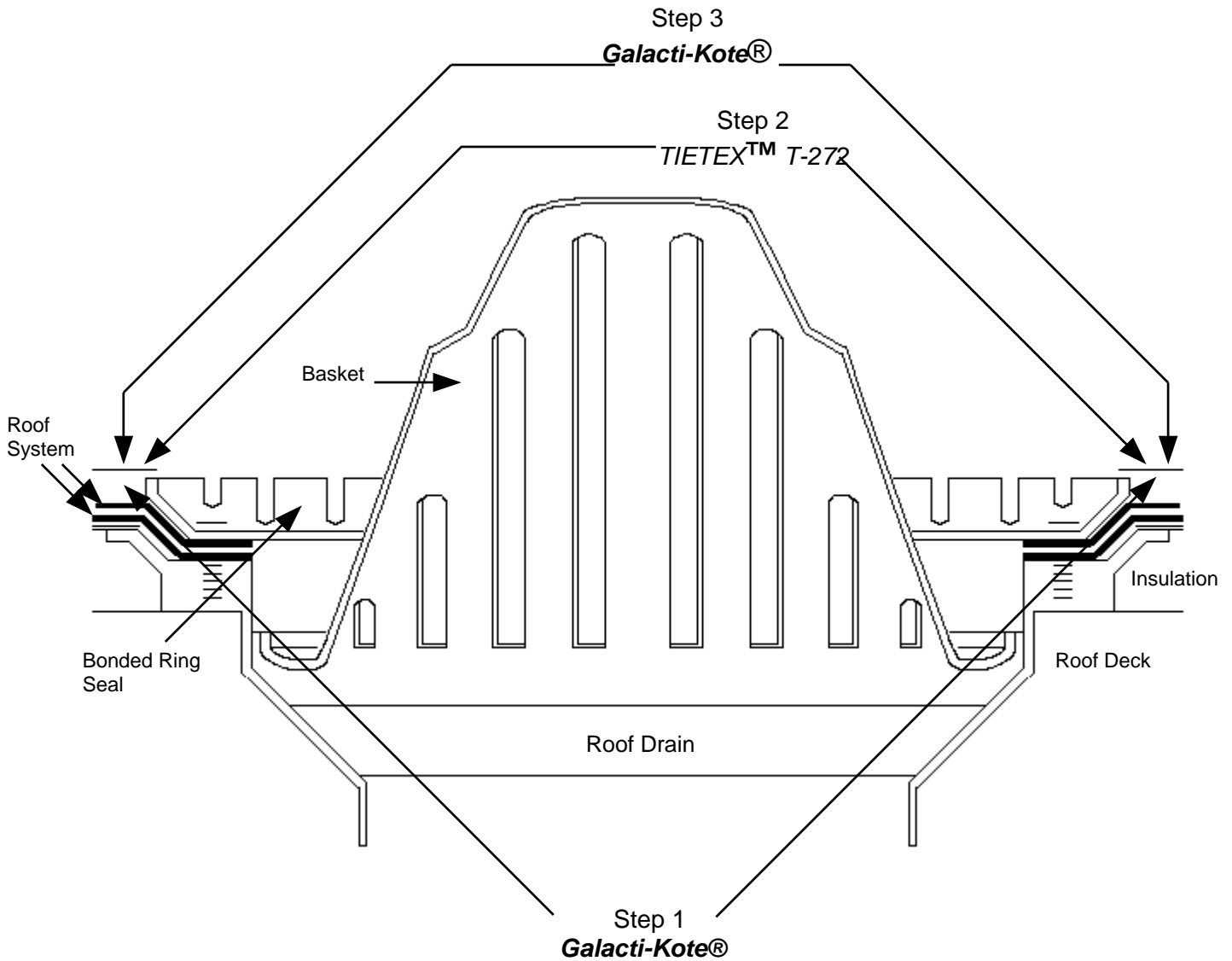
NOTE: For recommended wet mils refer to "Three Course" instructions (page 3).





Application Instructions

NOTE: For recommended wet mils refer to "Three Course" instructions (page 3).





Elastomeric Deck Coating What Makes Galacti-Kote® Different?

High Concentration Of Resins

Most elastomeric deck coatings consist of one or two polymers (co-polymer).

Galacti-Kote® elastomeric coating incorporates the highest quality resins. It is a modified acrylic coating made from a blend of styrene co-polymers (2) with an acrylic emulsion ter-polymer (3) for a total of five (5) different polymers.

With a high concentration of resins, this coating will remain flexible without deteriorating or cracking. In other products that use clay and other fillers the results differ drastically.

KEVLAR® Fibers

To increase tensile strength and durability, **Galacti-Kote®** incorporates DuPont™ KEVLAR® Aramid Fibers into its coating; thus the name “fibered” elastomeric coating.

Ceramics

For a bright and highly reflective capability as well as insulating value, the addition of space age ceramics has been added. They serve much the same purpose that ceramic tiles do on space shuttles.

This space age technology of incorporating ceramics into our coating gave birth to the name “**Galacti-Kote®**”.



Weather Conditions For Applying A Water Based Elastomeric Deck Coating

When daytime temperatures range from 75°F-100°F and relative humidity (R.H.) is 50% or less, you can expect a water based elastomeric deck coating such as Galacti-Kote® applied at approximately 40-45 wet mils to cure within three days.

It is very important that the coating has cured before being subjected to inclement weather.

Longer curing time than three days may be needed if either the daytime temperatures fall below 75°F, relative humidity exceeds 50% and/or wet mil thickness is greater than approximately 40-45 wet mils.

As the temperature increases beyond 75°F and relative humidity remains at 50% or less curing time may decrease from three days to as low as one day.

Moisture from early morning dew, high relative humidity such as fog and precipitation combined with daytime temperatures falling well below 75°F will prevent the coating from properly curing.

For Example: Fall and winter months with daytime temperatures in the 50°F's, heavy moisture from dew in the morning, overcast skies combined with occasional fog will actually dilute the coating thus inhibiting its curing process.

Instead of the moisture within the coating evaporating out into the atmosphere thus allowing the coating to properly cure. It will take in moisture preventing the coating from curing and setting up. The results can be very disappointing.

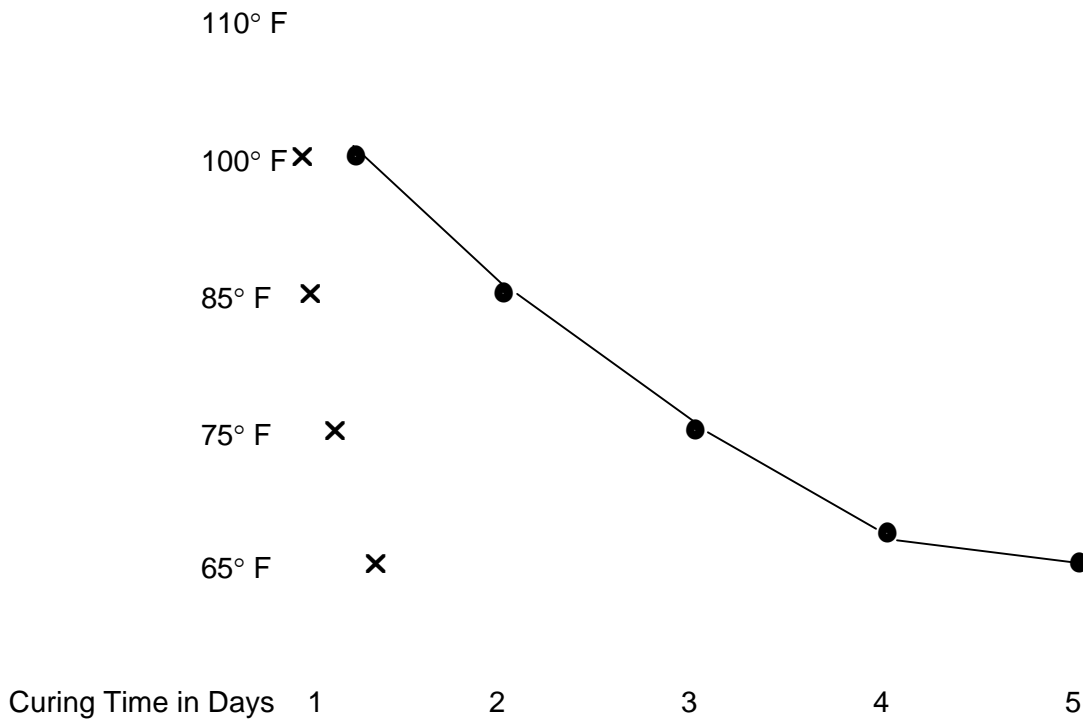


Weather Conditions For Applying A Water Based Elastomeric Deck Coating (Continued)

Below is a graph to help guide you in determining how long you should expect this coating to set up and cure given certain weather conditions:

- Assume:
- a) ● Wet mil thickness 40-45 mils.
 - b) Relative humidity 50% or less.
 - c) ✕ Wet mil thickness 27 mils.

Daytime Temperatures



Note: If wet mil thickness is greater than 45 mils and/or relative humidity is greater than 50% it will take longer for the coating to cure.



Ty-Zon Primer

Ty-Zon is an excellent product to use in areas where coatings have a tendency of not sticking well to smooth surfaces such as:

- | | |
|--|------------------------------|
| a) APP (Atactic Polypropylene) Smooth | d) PVC (Poly Vinyl Chloride) |
| b) Asphalt Emulsion | e) Concrete |
| c) EPDM (Ethylene Propylene Diene Monomer) | f) Urethane Coatings |

Ponderosa's **Galacti-Kote®** can be used over **Ty-Zon**.

Application Instructions

Preparation

All surfaces must be properly cleaned before applying **Ty-Zon Primer**. All repairs must be made before cleaning is done to insure no interior damage. Power wash the roof surface with clear water.

Priming

Before priming make sure surface to be primed is clean and dry. Use only **Galacti-Kote® Ty-Zon Primer**. This is a water based two-part component epoxy. Part A is the resin portion and part B is the converter.

- | | |
|----------|---|
| Step I | Mix by volume with moderate agitation, 3 parts component A to 1 part component B. |
| Step II | Allow 20 minutes induction time before applying. |
| Step III | Apply a liberal coat with airless spray or roller. Make sure no rain is forecast for 24 hours. One gallon will cover approximately 300 square feet. |
| Step IV | Allow 24 hours curing time. If daytime temperature is greater than 77°F and relative humidity lower than 50 % curing time can be shortened. |
| Step V | Proceed with top coat using Ponderosa's Galacti-Kote® . |

Note: After application of topcoat, adhesion will develop slowly over the next 1-2 weeks, depending on temperature. Do not try to lift topcoat during this time. Pot life is 4-6 hours.



Metal Decks With Seams, Joints And Fasteners

Note: All rust on metal must be properly treated prior to "Three Coursing" and/or Applying Hardcast® CRT-1602 Tape. Refer to Technical Bulletin addressing "Rust On Metal."

Using Galacti-Kote® And Polyester Fabric Over Metal Seams And Joints

Metal decks that do not have standing seams (water tight) are required to be "Three Coursed." refer to Application Instructions for "Three Courses."

Over Fastener Heads

After all screw and fastening devices have been retightened or replaced apply a generous amount of **Galacti-Kote®** over each fastener head to encapsulate it. The use of polyester fabric is not necessary. Allow at least 4 hours of curing time at 77° F and 50% humidity before applying **Galacti-Kote®** on the field of the deck. Longer curing time may be necessary in cooler weather and/or higher humidity.

Using Hardcast® CRT-1602 Tape Over Metal Seams And Joints

Metal decks that do not have standing seams (water tight) are required to be "Three Coursed" (page 3) or apply Hardcast® CRT-1602 Tape. Make sure you apply the #1602 Tape with minimum wrinkles or no air pockets near edge of tape.

Over Fastener Heads

After all screws and fastening devices have been retightened or replaced apply a piece of Hardcast® CRT-1602 Tape so that it will extend beyond base of fastener head by at least ¾ " in all directions. Make sure you apply the tape with minimum wrinkles or no air pockets near edge of tape.

Galacti-Kote® can be applied over the tape and field of the deck immediately after installing the #1602 tape.



Metal Flashing For Walk And Patio Decks

- Step I New Metal (Galvanized or Copper)
Remove oil by using mild acid or acetone. Do not use paint thinner as it may leave an oil residue.
- Old Metal (Galvanized or Copper)
Wipe down metal with acetone removing oils, dirt, asphalt, mold, etc.
- Step II With a clean and dry cloth wipe off residue.
- Step III Use 80 grit or coarser production sandpaper to abrade surface to establish a profile.
- Step IV Shortly after completing Step III, Apply **Galacti-Kote®** at a rate of 1½ gallons to 2 gallons per 100 square feet (27 to 36 wet mils thick). This can be applied with the use of a paintbrush or roller.
- While coating is still wet apply the T-272 polyester fabric into coating. Continue following **Galacti-Kote's®** Application Instructions page 7 or page 8.



Concrete

Moisture

New concrete contains water, some of which leaves through the surface. Before any coating system is applied, the wet concrete must be permitted to cure (age) for as long as possible in order to reduce the moisture content. For slab-on-grade not subject to freeze-thaw cycling, 28 days is generally considered and minimum curing time prior to coating. These 28-day periods assume an average or mean drying temperature of 70°F. In the winter and early spring a typical 6" Portland cement concrete slab should be allowed to cure for 60 days.

Removal of Efflorescence

If concrete has efflorescence, remove all deposits by wire brushing and acid etching with phosphoric acid. Rinse all surfaces with clear clean water to remove any remaining residue.

Primer

In problem areas where there is a need for alkali resistance, apply an alkali resistant primer. On porous walls and decks use latex stain blocking primer. Apply at a rate of 150 square feet per gallon.

If walls and or decks are slick and smooth use **Ty-Zon Primer** rather than latex stain blocking primer. Refer to technical bulletin on **Ty-Zon Primer** (page 16).

What Is Alkali?

The stiff deposit that can form mostly on masonry surfaces such as concrete. Alkali can eat right through coatings that are put over a surface that contains it.

What Is Efflorescence?

Efflorescence is a fancy word for the term "salting". Peeling is a common result of "salting". Efflorescence is the crystal-like salt deposits that form on masonry surfaces. It is usually a light gray or white crystal deposit or powder. It occurs when salt like crystals or alkali in the internal part of the masonry surface dissolve and then travel to the surface when water evaporated from the masonry surface.



Rust On Metal

Question: What is the proper procedure for treating metal decks with rust prior to applying **Galacti-Kote®** Fibered Elastomeric Coating?

Answer: **Using Alkyd Primers**

Step I Wire brush to remove loose or heavily rusted and scaly area (all rust need not be removed).

Step II Make all necessary patching and repairs to prevent water from entering building during power washing.

Step III Remove oil and grease from metal with acetone, follow by soapy alkaline wash (T.S.P.-Tri-Sodium Phosphate). Then rinse with clear water.

Step IV In areas where there is extra heavy rust and where practical, for top performance sandblasting to white metal is recommended. For less severe exposures or where sandblasting is not practical, remove heavy rust by chipping, scraping, wire brushing and sanding.

Step V Power wash entire deck with clear water and let dry completely.

Step VI Over ferrous deck surfaces (iron & steel) use an alkyd metal primer that has rust-inhibitive pigments with special corrosion fighting alkyd resins which yield maximum rust protection and moisture resistance. Use Ponderosa Protective Coating #73 primer; apply at a rate of 250 square feet per gallon for a dry mil thickness of 2.5 to 3.0 mils. If surface is severely rusted go over with a second coat of primer.

Over galvanized roof surfaces use Zinc Chromate Primer. Use Ponderosa Protective Coating #75 primer; apply at a rate of 300 square feet per gallon for a dry mil thickness of 2.0 to 2.5 mils. If surface is severely rusted go over with a second coat of primer.

Step VII After the primer is thoroughly dry (at least 24 hours curing time) apply **Galacti-Kote®** according to Application Instructions.

Note: Before using these primers check with your local Air Pollution Control District (APCD) to make certain they are in compliance.



Rust On Metal

Question: What is the proper procedure for treating metal decks with rust prior to applying **Galacti-Kote®** Fibered Elastomeric Coating?

Answer: **Water Reducible Primers (Where low VOC's are Required)**

Step I Wire brush to remove loose or heavily rusted and scaly area (all rust need not be removed).

Step II Make all necessary patching and repairs to prevent water from entering building during power washing.

Step III Remove oil and grease from metal with mineral spirits follow by soapy alkaline wash (T.S.P.). Then rinse with clear water.

Step IV In areas where there is extra heavy rust and where practical, for top performance sandblasting to white metal is recommended. For less severe exposures or where sandblasting is not practical, remove heavy rust by chipping, scraping, wire brushing and sanding.

Step V Power wash entire deck with clear water and let dry completely.

Step VI Over ferrous deck surfaces (iron & steel) as well as galvanized deck surfaces use a water reducible acrylic primer that has rust-inhibitive pigments with special corrosion fighting alkyd resins which yield maximum rust protection and moisture resistance. Use Ponderosa Protective Coating #7400; apply at a rate of 300 square feet per gallon for a dry mil thickness of 1.5 to 2.0 mils. If surface is severely rusted go over with a second coat of primer. Wait 24 hours between coats.

Step VII After the primer is thoroughly dry (at least 24 hours curing time) apply **Galacti-Kote®** according to Application Instructions.



Three Light In Solar Energy

Total Solar Energy

Ultraviolet Light= 5%
Visible Light= 45%
Infrared= 50%

Light Wave Lengths

100-400 nanometers
400-700 nanometers
700-2400 nanometers

Ultraviolet (UV)

Invisible light rays normally not damaging to inorganic materials such as deck coatings, but is damaging to organic materials such as human skin.

Visible

Very destructive to deck coatings. The greater percentage of reflectivity the less degradation and heat build up. It is in this wave length (400-700 nanometers) where polymers in a deck coating are subject to degradation.

Infrared

This light is not damaging to the polymers in a deck coating but can be absorbed and turn into heat. For conductive heat flow this is the most important light wave (700-2400 nanometers).

Reflectivity Tests

There are ASTM Tests that will measure the percentage of reflectivity off of a deck coating at a given dry mil thickness after being exposed for a given period of time to Solar Energy.

ASTM D1729 and ASTM E97

These tests measure the Visible Light reflectance of a coating (400-700 nanometers).

Reflectivity

GALACTI-KOTE® FIBERED ELASTOMERIC COATING is one of the brightest pure white coatings available on the market today. As a result of space age technology in developing ceramic components, **GALACTI-KOTE®** has a reflectance greater than 86%.



Insulation Value

GALACTI-KOTE® has excellent insulating value, which will help keep energy costs down.

Tensile Strength

GALACTI-KOTE® has incorporated the most advanced product technology; this includes the incorporation of DuPont™ KEVLAR® Aramid Fibers. These fibers give this product tremendous tensile strength as well as excellent flexibility.

Permeability

GALACTI-KOTE® adheres well over metal, built-up, and concrete decks. Also, it adheres to most single ply, modified bitumen and many other deck coatings.

Versatility In Application

GALACTI-KOTE® may be applied with airless spray equipment, roller, or brush.

Technical Data

| | |
|------------------------------|---|
| Vehicle Base | 100% acrylic resin |
| Viscosity | 101 Krebs Units |
| Pounds per gallon | 11.6 +/- 0.2 |
| Solids by weight | 66% +/- 2% |
| Solids by Volume | 53% +/- 2% |
| Application Temperature | Surface Temperature greater than 55°F |
| Dry Film Thickness 25 mils | 2 ½ Gal/Sq. 4-6 hours for light traffic at 77° F and 50% relative humidity. Cooler temperatures and higher relative humidity may retard drying. |
| Flow of cured film at 160° F | None |
| PH | 9.0 +/- 0.2 |
| Reflectivity | 86% |
| Tensile Strength | 347 psi Initial- 893 psi 1,000 hrs CON-UV |
| Elongation | 200% Initial – 141% 1,000 hrs CON-UV |
| VOC | 50 g/l |
| Fire Rated – Class “A” | ASTM E108-88a CAN/S107-M87 and UL 790 |