ENDURO-KOTE T.M.
APPLICATION GUIDELINE

SECTION (07 18 13)

PEDESTRIAN TRAFFIC COATING FOR EXTERIOR GRADE PLYWOOD

PART 1 GENERAL

1.1 SCOPE:

This guideline will provide the necessary instructions and establish uniform procedures for the application of the ENDURO-KOTE walking deck/roof covering, to qualify for the limited warranty.

1.2 MODIFICATIONS:

The methods involved may require modification to adjust to job site conditions, air temperature, and weather. Consult Enduro Products for specific design requirements.

1.3 CONDITION OF PLYWOOD SUBSTRATE AND SURFACES:

1.31 Verify that work in this Section may be installed in accordance with pertinent codes and regulations, the Contract Documents, referenced standards, and the manufacturer's submittals, as accepted.

1.32 All plywood joints must be tightly blocked or tongue and grooved.

1.33 Plywood shall be a minimum (19/32) 5/8-inch nominal thick exterior grade. (Wood substrate must comply with ICC-ES Acceptance Criteria for walking decks AC39, Section 1.2, for exterior grade plywood.)

1.34 Verify that the deck will drain properly per The Code. Sloping for drainage shall be a minimum of 1/4-inch per lineal foot.

1.35 Verify that the plywood substrate is solid, without damage to the surface, or any soft spots, and that the fastening is installed in accordance with applicable codes, and IAPMO ER #483.

1.36 Surface of the plywood must be dry and clean. Foreign material, that may prevent the bonding of ENDURO-KOTE, must be removed.

1.37 Bonderized galvanized sheet metal shall be installed, in accordance with applicable codes, around the perimeter of the area where ENDURO-KOTE will be applied. All joints shall overlap a minimum of two inches and shall be caulked and fastened properly. The horizontal portion of the metal flashing shall extend from the wall a minimum of two inches over the plywood substrate. Where an exterior drip edge occurs, the metal flashing shall extend horizontally a minimum of four inches from the edge over the plywood substrate. All metal flashing, drains, scuppers, vents, etc., shall be bonderized galvanized sheet metal to facilitate a proper bond of Enduro-Kote.

1.38 Verify that the use of plastic drains has been avoided. Use bonderized galvanized drains only.

1.39 Enduro Products, or its Approved Applicators, are not responsible for standing water on the surface of the finished Enduro-Kote System Standing water is normally caused by shrinkage or warping of the plywood substrate.

1.4 JOB SITE CONDITIONS:

1.41 Avoid application of ENDURO-KOTE prior to or during moist or inclement weather.

1.42 Normal application shall be limited to a temperature range between 50°F and 95°F.

1.43 If there are deficiencies in the framing, sheet metal, or any portion of the structure which will affect the application of ENDURO-KOTE, the owner or general contractor shall be notified in writing and corrections made before proceeding.

PART 2 QUALIFICATIONS

2.1 APPLICATOR:

Shall be regularly engaged and specializing, (for the preceding 5 years), in the application of similar materials and listed as an approved applicator by Enduro Products Shall be a licensed contractor in the state where work will be performed.

2.2 SUBMITTALS:

Shall include Enduro-Kote sample, submit specifications, copy of IAPMO ER #483 and appropriate city or county approvals as required.

PART 3 MATERIALS

The materials shall be delivered to the job site in the original sealed containers. The label shall bear the product name, manufacturer lot number, IAPMO UNIFORM EVALUATION SERVICE Report Number, Quality Control agency logo, and precautionary labels. Applicator shall read and understand all Material Safety Data Sheets prior to using any Enduro-Kote materials. All materials listed are manufactured and supplied by Enduro Products.

3.1 EKC CEMENTITIOUS MIX:

Packaged in 46 pound bags.

3.2 EKL ACRYLIC EMULSION:

Packaged in 5 gallon containers.

3.3 EKS ACRYLIC COLOR COAT:

Packaged in 5 gallon containers

PART 4 APPLICATION OF METAL LATH

4.1 Shall use minimum of two-and-one-half pound per square yard hot dipped galvanized expanded metal lath. Entire surface of plywood shall be covered with the metal lath from the base of the vertical riser of the wall sheet metal flashing to the gravel stop of the drip edge flashing.

4.2 Remove sheets of metal lath from bundle, in same direction, and lay them side by side with the seams butting together. DO NOT place lath seams closer than two inches to a parallel plywood joint. Fasten sheets in place with a few galvanized nails, in the field of the lath, to prevent slipping while stapling.

4.3 Use a minimum No. 16 gauge, 7/8-inch crown, 5/8-inch long corrosion-resistant staple. Use a stapling tool capable of countersinking the staple Consult with staple tool manufacturer for correct set up on tool and proper air pressure.

4.4 Begin stapling in the middle of the metal lath sheet, using a random pattern, and staple towards the ends until the metal lath is stapled flat to the plywood, using a minimum of 24 staples per square foot. The last row of staples along the edge of the metal lath shall be within one inch of the seam. The seams shall be stapled after the adjacent field of metal lath sheets have been stapled. The seams shall be stapled no more than one inch apart with staples being placed perpendicular to and straddling the seam. The metal lath that overlaps the metal flashing shall be stapled or nailed with galvanized nails no more than one inch apart. Inspect lathing surface prior to application of first coat to insure staples have been installed properly.

PART 5 APPLICATION OF ENDURO-KOTE

5.1 MIXING:

Use a 1/2-inch drill motor, at a speed no greater than 300 RPM, with a mixing tool and mix the EKL Acrylic Emulsion. After mixing, measure one gallon of the EKL Liquid into a five gallon pail. Slowly pour the EKC Cementitious mix, 1/3 bag at a time, into the EKL Liquid while mixing continually. Depending on the air temperature, add up to eight ounces of water to the mixture to obtain proper hydration, and consistency, so the mixture will spread well when it is troweled into the metal lath.

5.2 FIRST COAT:

Start at the edge of the perimeter by the metal flashing and brush the mixture into the metal lath over the metal flashing Trowel the mixture over the brushed areas, and the field of the metal lath, back and forth into the lath with smooth even strokes to the vertical riser of the flashing, or to the gravel stop of the drip edge sheet metal. DO NOT FLOAT the mixture. Use the lath as a screed. Minimum time for air cure is two hours before applying the next coat.

5.3 SECOND COAT:

Surface shall be dry and free of all foreign material. Mix second coat identical to first coat (Section 5.1). Brush mixture into the edges and corners using the same troweling procedure as the first coat. Trowel a 1/16-inch thick coat over the brushed areas and the entire surface of the first coat. Use a damp sponge (not too wet) to smooth out excess trowel marks. The next coat is applied when the surface is hard.

5.4 PREPARATION FOR TEXTURE COAT:

Surface must be dry and free of foreign material.

5.5 APPLICATION OF TEXTURE COAT:

5.51 Use a hopper with a pattern pistol (Goldblatt or equal) with an 1/8-inch orifice with 3/8-inch plate hole. Set air pressure on the compressor between 7PSI to 15PSI. Lower pressure creates larger pattern spots. Higher pressure creates smaller pattern spots. Use a spray shield to protect walls, slider doors, railing, etc. from over spray.

5.52 Mix Texture Coat identical to first coat (Section 5.1). After loading mixture into hopper, move the pattern pistol evenly to create a uniform spray over second coat. Spray only as much area that can be troweled before mixture hardens Trowel in all directions to obtain proper texture. To insure a uniform texture, lightly over spray approximately four inches of the last section troweled. Minimum air cure time is two hours before applying the color coat.

5.6 APPLICATION OF COLOR COAT:

Surface must be dry and free of all foreign material. Mix EKS Color Coat thoroughly with mixing tool, before and during application. Brush color coat into the edges and corners of the flashing, including the riser of flashing. Roll color coat over the texture coat with a 3/4 inch nap roller until uniform coverage is achieved. Under normal conditions, the second coat can be applied when the first coat is dry to the touch.

PART 6 PEDESTRIAN TRAFFIC BETWEEN COATS

Light pedestrian traffic (depending on air temperature, humidity, etc.) may be allowed after approximately two hours of cure time for the first coat, second coat, texture coat, and the color coat. However, the color coat should be given twenty-four hours cure time, before heavy pedestrian traffic is allowed. Pedestrian traffic shall not be allowed on the finished surface until the contractor/owner has given final acceptance and approval of the applicator's work.

PART 7 LIMITED WARRANTY

ENDURO-KOTE waterproof products are guaranteed against water penetration for a period of ten years. Failure of contiguous materials or substructure invalidates this warranty. Failure of substructure or materials may be described as follows:

- Failure of substrate plywood, joists or beams.
- Deletion of, or punctured, felt paper behind siding or stucco.
- Failure of sheet metal flashing, drains, or scuppers.

If any contiguous building material should fail causing leaking under the ENDURO-KOTE System.

Improper application of ENDURO-KOTE, or deviations from specifications, will invalidate the limited warranty.

Maintenance of the ENDURO-KOTE System is the responsibility of the ultimate user/owner. A copy of the Maintenance Policy and Procedure may be obtained from the manufacturer or Approved Applicator.