

GENERAL GUIDELINES: POLYURETHANE DECK COATING SYSTEMS FOR WOOD BALCONY DECKS

The waterproof walk deck systems are an elastomeric, liquid applied, moisture cured, urethane waterproof system. The system utilizes a primer on metal and taping all joints, then a basecoat, broadcasting rubber granules, finally 1-2 coats of topcoat. It is an elastomeric system designed to expand and contract with normal structural movements. Installed and maintained properly, the decking system will ensure years of service. Annual inspection is recommended.

TYPICAL USES:

- Commercial Walkways / Stairs
- Balconies
- Office Plaza walkways
- Sun Decks
- Roof Decks

PRODUCT INSTRUCTIONS: For complete information associated with the application of all decking systems, refer to the manufacturer's data sheets, product specifications, MSDS sheets and general guidelines. These further describe the surface preparation, job conditions, finishing details, safety precautions and other necessary information. **READ ALL SAFETY SHEETS BEFORE USING.**

PRE INSPECTION: Check area of application to ensure that it conforms to the substrate requirements, as stated in the general information section.

The only acceptable grade of plywood is tongue-and-groove APA rated KNOT FREE FACE, exterior grade or better. Thickness: 19/32" minimum. Plywood spacing and deck shall be constructed following APA guidelines, ensuring 1/16" space, over 16" center joints. Plywood shall be **GLUED AND SCREWED**. Do not hammer down high screws. **PLYWOOD MUST BE DRY.**

RESHEET with proper plywood if ANY other material has been used.

Pre-grind ridges or steps where needed. Apply L-metal to all perimeter areas.

PREPARE ALL SEAMS AND LET SEAM MATERIALS CURE BEFORE STARTING. NP1 takes several days to cure. SuperSeam Tape is excellent and saves a full day or more of time: <http://www.bestmaterials.com/detail.aspx?ID=19862>

Walk the entire deck surface to test for no-movement. Reinforce as needed with under-bracing and additional deck screws. Do not coat decks with any movement. They will fail.

Temperatures: If cool, the pails should be store indoors before use. DECK temperature must be 50°F and rising minimum, and less than 110° F ambient. PRODUCT temperature must be 60°F minimum before mixing and at the start of the job (keep it indoors). If your daytime temperatures will exceed 110F, start your work before sunrise to keep sun off newly applied product.

GENERAL IMIXING INSTRUCTIONS FOR 2 COMPONENT PRODUCTS

These products are chemically cured. It is critical that the 2 components be mixed exactly as follows:

1. Plan your work. Have everything at hand and ready to go. Determine a quantity which can be mixed and applied in 20 minutes.

2. General coverage is 2-1/4 to 2-1/2 gallons per 100 sqft for basecoat, and 4 gallons per 100 sqft for topcoat, per layer.

3. You must use separate mixers and containers for EACH OPERATION. No cross use is permitted.

4. Open A part. Inspect. Remove top plastic sheet if present. Save it for reuse when closing container.

4.1 Mix part A in the can slowly with a Spiral power mixer. Do not whip air into product. Mix all sides, bottom and middle well. Mix for 5 minutes. Here is the proper mixer:

<http://www.bestmaterials.com/detail.aspx?ID=14841>

5. Open B Part. Inspect as above.

5.1 Using a NEW different mixer, Mix part B in the can slowly as above.

6. Using a disposable plastic or metal pail, pour PROPORTIONAL amounts of A and B into the pail. The proportions must be correct. We find the 1/2 gallon disposable plastic storage containers from the grocery store are good to use – look for the ones with graduation markings on them.

Only mix enough for what you can mix and apply in 20 minutes.

6.1 Using a THIRD New Mixer, mix A+B for 5 minutes as above.

6.2 Wipe A+B bucket lid areas with new rags and replace lid.

7. BASECOAT APPLICATION:

Plywood MUST BE 100% DRY. NO MOISTURE (OR SWEAT) CAN SPRINKLE DURING APPLICATION.

Apply basecoat to the perimeter and sidewall areas first. Then apply basecoat to the field.

APPLY: Apply basecoat to substrate at a rate of 2-1/4 to 2-1/2 gallons / 100 sq. ft.

For best results, pour out in 100sqft areas THEN use a notched squeegee

<http://www.bestmaterials.com/detail.aspx?ID=9308>

Then follow by slow back-rolling (use a 5-6' pole with the roller). Apply mixed basecoat evenly over the entire deck. Back-roll again as needed to even out and work out any bubbles.

A solvent resistant 3/8" nap roller should be used.

<http://www.bestmaterials.com/detail.aspx?ID=10070>

The finished application should result in a 25 to 30 mils thick wet coating. Use a mil gauge.

8. IF USING RUBBER, APPLY AGGREGATE: The best decks are made with rubber granules. They are the coolest to walk on, easiest and last the longest. But roughness is greater in rubber decks than sanded decks.

RUBBER GRANULES: While basecoat is still wet, immediately apply 16/30 rubber granules to refusal. Apply by hand, and apply in layers until the surface is entirely covered and the coating is no longer visible.

IF USING SAND: Another layer of basecoat or topcoat, must be applied over the first cured basecoat. Then sand is broadcast into this 2nd wet Basecoat layer. Do not apply sand into a first basecoat layer it will create failure.

9. TOPCOAT APPLICATION:

BASECOAT CURE: Before topcoating, allow basecoat to cure until not sticky and footprints will not show.

REMOVE LOOSE AGGREGATE: AFTER BASECOAT IS CURED, remove all loose aggregate with a stiff bristle broom, followed by a high-power air blower.

MIX TOPCOAT EXACTLY AS PER STEPS 4, 5 and 6. The 3 mixers from BASE COAT can be reused after wiping clean. PART A MIXER CANNOT BE USED IN PART B Product even when cleaned. DO NOT USE ALCOHOL Cleaner.

Apply desired color of topcoat at a rate of 1 to 1-1/4 gallons / 100 sq. ft. NO THICKER. For best results use Phenolic core 1/4" nap roller and you MUST ROLL OUT OF A PAN. You cannot pour our product and roll around. Exact topcoat thickness is critical TOO THICK will result in bubbling, cracking and such.

If excessive bubbles are appearing, it's TOO HOT. Recoat at early morning.

Mark off area with CAUTION TAPE before leaving.

Before traffic allow a minimum of 24 hours for topcoat to cure at 75°F, more in cold weather.

10. SECOND TOPCOAT: Apply a second coat of topcoat at a rate of 1 gallon/100 sq. ft as above. Always apply a second coat when using custom colors, in higher traffic situations, or when deck finish is too rough. Sanded decks can sometimes use only one topcoat.

CLEANUP: Use high-grade Xylene or acetone only. NO ALCOHOL, gasoline, or alcohol containing products or vessels. Do not use solvent on your skin. Use WD-40 on your skin.

WARRANTIES:

- Materials Manufacturers assume NO liability for substrate defects or seam work. This is an applicator judgment. Material Manufacturers warranty only that the material was made properly, and if applied "by a State Licensed waterproofing contractor according to product guide specifications over sound properly prepared substrate, their products will not allow water migration for 1 year". There are no other warranties, UNLESS the manufacturer inspects at each step and approves in advance (BASF).
- **BEST MATERIALS does not provide any warranty of products of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product or application.**

DECK COATING MATERIALS AND EQUIPMENT CHECKLIST

- Ultra Low Rise Drip Edge
- Hot-Dip or Stainless Steel Ring-Shank Roofing Nails
- Polyurethane Primer
- 4" Fiberglass Fabric (web) or SuperSeam Tape.
- NP1 Sealant, OR mix a small batch of base coat to brush over Seam Tape and feather out seams
- Basecoat (2-1/2 G / 100 sqft)
- Granules (15 lbs / 100 sqft)
- Top Coat (1-1/4 G / 100 sqft)

OTHER ITEMS:

- Xylene
- 3-6 Mixers (4")
- Disposable Bucket
- Notched Squeegee
- Disposable Roller Frames
- Roller Covers, Basecoat
- Rollers Covers, Topcoat
- Paint Rolling Pans
- Nitrile or Vinyl Gloves
- Safety Glasses
- Rags
- Heavy Broom or Gas Powered Blower
- 1/2" Drill
- Extension cord
- Hammer
- Screw Gun
- Tin Snips
- Razor Knife