



APPLICATION PROCEDURE

PERMAKOTE® / PERMAKOTE PLUS®
PERMAKOTE® SEMI-GLOSS / PERMASIL™ / PERMAGARD®

METAL SLOPED ROOFING SURFACE

Galvanized • Galvalum • Steel • Tin • Copper • Aluminum • & More



APPLICATION PROCEDURE
#PAK-M
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NATIONWIDE PROTECTIVE COATING MFRS., INC. • 7106 24th Court East • Sarasota, Florida 34243 •

STEP#4: REPAIRING SURFACE & PATCHING IMPERFECTIONS

After surface has thoroughly dried, Patch and Caulk all cracks, crevices, fractures, holes, valleys, vents, voids, etc., with PERMAPATCH™. Use a trowel or stiff brush to apply. Multiple coats are better than one thick coat if possible. The thicker PERMAPATCH™ is applied, the longer it will take to dry. Wait at least 4 hours before applying a second coat of PERMAPATCH™ and let final application dry at least 24 hours before continuing to next step. PERMAPATCH™ dries from top to bottom, so be careful when working around a caulked area since it will be skin dry. There is no problem coating over PERMAPATCH™ even if it is not completely dry, since it is a high solids material. Do not apply PERMAPATCH™ to rusted areas, METAL-PRIME must be applied before using PERMAPATCH™ in any rusted areas. PERMAPATCH™ has minimal shrinkage, but the thicker PERMAPATCH™ is applied the more chance it has to shrink, check after 24 hours and apply additional PERMAPATCH™ if necessary.

STEP#5: TAPING SEAMS (If Applicable, otherwise proceed to STEP#5:)

Tape all visible seams, valleys, large cracks & fractures prone to water intrusion on roof surface. On rusted seams use METAL-PRIME, otherwise PERMABOND™ can be used as Fabric Saturant. Apply a liberal coat of PRIMER (METAL-PRIME or PERMABOND™) 12-16 mils wet film thickness, directly to the affected area using: 1- brush, 2- at least a one inch nap roller, or 3- at least a one gallon per minute piston type airless sprayer. Minimum tip size for PERMABOND™ is a .021 and minimum tip size for METAL-PRIME is .027. Remove all line filters and gun filters before spraying. Lay the PERMATAPE™ directly onto the WET PRIMER. Tape must be put down before PRIMER has had a chance to start drying (approximately 15 minutes). After all areas are taped let dry for 1 to 2 hours. Apply a second light coat of PRIMER at 6-8 mils wet over the top of the tape. Let dry for at least 2 hours before continuing. If a full PRIMER coat (Step#6:) is applied the second light coat of PRIMER is recommended but not required.

STEP#6: FULL PRIMER COAT

If Roof has NO RUST use PERMABOND™ as PRIMER, If Roof has ANY RUST this should be the Second Coat of METAL-PRIME over Spot Primed areas or if roof had GREATER than 40% Rust this should be Second Full Coat of METAL-PRIME. Apply PRIMER (METAL-PRIME or PERMABOND™) 12-16 mils wet film thickness using: 1- brush, 2- at least a one inch nap roller, or 3- at least a one gallon per minute piston type airless sprayer. Minimum tip size for PERMABOND™ is a .021 and minimum tip size for METAL-PRIME is .027. Remove all line filters and gun filters before spraying. This Coat of PRIMER must be applied perpendicular to the slope of the roof. Example: If the slope of the roof runs from North to South then the coating will be applied from East to West. This will be the start of a checkerboard application pattern. See diagram below. Apply the PRIMER at a rate of 100-150 square feet per gallon covering the entire roof surface. Wet film thickness of 12-16 mils resulting in a dry film thickness of 4-12 mils. Let PRIMER dry at least 4 hours before continuing.

STEP#7: FIRST COAT of ROOF COATING (PERMAKOTE®-PERMAKOTE® SEMI-GLOSS-PERMAKOTE PLUS®-PERMASIL™-PERMAGARD®)

Be sure entire surface is clean and free of all moisture. Be sure the entire area to be coated is primed with a minimum dry film thickness of at least 4 mils. If not, then spot prime the deficient areas until the minimum dry film thickness is achieved. Apply First Coat of Roof Coating using: 1- brush, 2- at least a one inch nap roller, or 3- at least a one gallon per minute piston type airless sprayer with a .027 minimum tip size. Remove all line filters and gun filters before spraying. The first coat must be applied perpendicular to the coat of PRIMER to continue the checkerboard pattern. See diagram below. Apply the first coat at a rate of 100-125 square feet per gallon per coat over the entire roof surface. Wet film thickness of 14-16 mils resulting in dry film thickness of 8-10 mils. Let dry at least 12 hours before continuing.

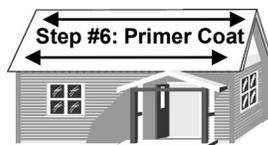
STEP#8: SECOND COAT of ROOF COATING (PERMAKOTE®-PERMAKOTE® SEMI-GLOSS-PERMAKOTE PLUS®-PERMASIL™-PERMAGARD®)

Be sure entire surface is clean and free of all moisture. Be sure the entire area to be coated has a minimum dry film thickness of 12 mils (this includes 4 mils of PRIMER). If not, then spot coat the deficient areas until the minimum dry film thickness is achieved. Apply Second Coat of Roof Coating using: 1- brush, 2- at least a one inch nap roller, or 3- at least a one gallon per minute piston type airless sprayer with a .027 minimum tip size. Remove all line filters and gun filters before spraying. The second coat must be applied perpendicular to the first coat of ROOF COATING to complete the checkerboard pattern. See diagram. Apply the second coat at a rate of 100-125 square feet per gallon per coat over the entire roof surface. Wet film thickness of 14-16 mils resulting in dry film thickness of 8-10 mils. Let dry at least 24 hours before Final Evaluation.

STEP#9: FINAL EVALUATION

At this time a detailed evaluation of the completed job will determine the quality of the workmanship and whether strict application specifications have been met. The entire roofing surface must be completely coated & sealed. Be sure to check that all roof areas are completely coated & sealed under permanently placed roof items such as roof top air conditioning units. Divide roof into 1,000 square feet sections and randomly check one spot in each section for a dry film thickness of all three coats of at least 20 mils. Remember to touch up the penetration made by the dry film thickness gauge. If specifications have not been met, recoat the entire roof or deficient areas. Repeat evaluation and recoating until the required minimum dry film thickness is achieved. If rust bleeds through PERMAKOTE® FINISH, reapply two coats of METAL-PRIME and recoat with PERMAKOTE® FINISH.

How to Achieve the Checkerboard Application Pattern



In Any Event Nationwide Protective Coating Manufacturers, Inc. will not be liable or responsible for any past, present or future leaks or any resulting consequential or incidental damages.