



ELASTOMERIC ACRYLIC CERAMIC PERMAKOTE PLUS®

WATERPROOFING & INSULATING LIMITED PONDING WATER FLAT ROOF FORMULA MATTE FINISH PROTECTIVE ROOF COATING



**PRODUCT
DATA**

**6 & 12 YEAR
LIMITED
MATERIAL
WARRANTY**

#7530

03/27/13

superseding: 10/24/12

PRODUCT DESCRIPTION:

PERMAKOTE PLUS® is a Matte Finish, Bright White, Elastomeric Acrylic, Insulative and Reflective Ceramic, Waterproofing Limited Ponding Water Formula, Protective ENERGY STAR® Roof Coating. It is a water-based, high build formula that possesses waterproofing, insulating and soundproofing properties that beautifies, protects and extends the life of most any sloped and flat roofing surfaces. Designed for well drained flat and level roof surfaces that do not accumulate any settling or standing water in excess of ½" deep. (For surface specifications, see warranty compliance information section below.) Forms a monolithic, thick rubber like ceramic shield of protection that expands and contracts with varying hot and cold temperatures, plus excellent resistance to thermal shock. Unsurpassed in technology, PERMAKOTE PLUS® is an energy saving reflective coating that offers superior mildew resistance, ceramic insulation & soundproofing, excellent adhesion, U.V. ray reflectivity and a beautiful matte finish. An energy saving coating that combats the destructive environmental forces of nature. PERMAKOTE PLUS® passed the CLASS A Fire Rating Test as per ASTM E84-01, NFPA 101 Life Safety Code. This easy to apply roof coating system will provide many years of durable protection and outstanding beauty, and will extend the roof's life. PERMAKOTE PLUS® is an inexpensive alternative solution to roofing and re-roofing. PERMAKOTE PLUS® offers a 12 YEAR LIMITED MATERIAL WARRANTY on sloped roofs and a 6 YEAR LIMITED MATERIAL WARRANTY on qualifying flat roofs (see Warranty Compliance Information Section Below).

PERMAKOTE PLUS® USES:

Recommended for well draining, FLAT or SLOPED roofing surfaces (see Warranty Compliance Information Section Below). Excellent adhesion on weathered wood, shakes, plywood, clapboard, primed metal, galvanized, aluminum, tin, copper, asbestos, asphalt, urethane, polyester, primed styrofoam, fiberglass, built-up-roofs, bonded roof gravel, rolled roofing, modified bitumen membranes, mineral surfaced roofing, concrete tiles, clay tiles, masonry tiles (flat or barrel), primed synthetic or aluminum, adobe, slate, slab, properly prepared EPDM, and various other substrates. PERMAKOTE PLUS® is ideal for residential, commercial and industrial applications.

SURFACE PREPARATION:

Apply only to a sound, completely dry, well prepared roof surface. Leaks must be repaired before any coating is applied. If primer was applied, it is essential that the primer surface is clean and dry and free of all moisture. If no primer was applied, prepare surface by thoroughly pressure washing with a water and chlorine mixture using at least 1500 P.S.I. to remove any previous coatings, dirt, grease, and other foreign materials, especially mold, mildew and algae. PERMAKOTE PLUS® will resist mildew growth, but will not kill mildew already on the surface. Patch any holes, cracks, flashings, valleys, vents, etc., with PERMAPATCH™, a Waterproofing Caulk and Sealant. Tape & seal all seams with PERMATAPE™, a Polyester Fabric Tape.

Metal: Clean surface of all grease, oil and foreign matter before priming. Rusted metal and uncoated metal must be primed with METAL-PRIME RED-OX™, a Red Iron Oxide Primer Sealer. Use a degreaser on galvanized or coated metals which have oils or surface treatments. Check PERMAKOTE PLUS® adhesion on galvanized or coated metal by applying to a small area and evaluating after 48 hours. If lack of adhesion is present after evaluating, metal must be lightly scuffed without penetrating the coated finish or galvanizing. If applicable, use METAL-PRIME RED-OX™ to spot prime the penetrated areas, then use PERMABOND™ Primer for entire coated or galvanized surface.

APPLICATION PROCEDURE:

Stir well before using. Do not thin, use product as is. Mix multiple containers of color together for greater color consistency. Do not apply when temperatures are below 45 degrees Fahrenheit or when humidity is very high. Do not apply when coating will be subjected to rain or heavy dew before it has had enough time to dry (approx. 2 to 4 hours). Drying time will vary depending on temperature, humidity and location. Apply using brush, roller or spray. Spread coating uniformly. Spread Rate will vary depending on surface. Apply each coat between 12 to 16 mils wet film thickness. Wait at least 12 hours before applying a second coat. Two coats resulting in a minimum 16 mil total dry film thickness is recommended. If primer was used a minimum 20 mil total dry film thickness is required and is mandatory for warranty compliance.

Airless Sprayers: Use at least a 1 gallon per minute piston type airless sprayer with a minimum tip size of .027. Remove line filters and gun filters before spraying.

Clean Up: Clean up all spills, tools and overspray immediately while the coating is still wet with warm soapy water.

"As an ENERGY STAR® PARTNER, Nationwide Protective Coating Mfrs., Inc. has determined that this product Meets or Exceeds the ENERGY STAR® Guidelines for Energy Efficiency."

WARRANTY COMPLIANCE INFORMATION:

The PERMAKOTE PLUS® 6 and 12 YEAR LIMITED MATERIAL WARRANTY is for Product Only and applies to chipping, cracking and peeling, only. Labor is not covered by this warranty. This product is not guaranteed to stop or prevent leaks; all leaks must be repaired prior to the application of any coating. The WARRANTY is available only when product is applied according to Manufacturer's Application Procedures and Strict Material Requirement Specifications and a Warranty Registration (and a Job Completion Form if coated area exceeds 10,000 square feet) is submitted to Manufacturer within 90 days of completed coating application date (Application Procedure Sheets available upon request).

WARRANTY TERM DETERMINATION: 6 YEAR WARRANTY FLAT ROOFS; Slope of roof less than 1" per 24" or an angle less than 4 degrees.

12 YEAR WARRANTY SLOPED ROOFS; Slope of roof must be greater than 1" per 24" or an angle greater than 4 degrees.

FLAT ROOF SURFACE QUALIFICATION: The PERMAKOTE PLUS® FLAT ROOF SIX YEAR WARRANTY is for Well Draining, Flat Roofing Surfaces that: do not accumulate any ponding, standing or settling water in excess of ½", no ponding water regardless of depth can remain longer than 72 hours, no negative slope or negative pitch may be present on roof surface, drip edge must not be higher than ½" above roof surface, and roofs with parapet walls must have adequate drainage and/or scuppers to remove water. Warranty will be unobtainable or void if these criteria are not met.

MIL THICKNESS: A required primer sealer coat of PERMABOND™ or METAL-PRIME must be applied prior to the application of PERMAKOTE PLUS®. The primer coat and two coats of PERMAKOTE PLUS® must result in a minimum 20 mil total dry film thickness.

MINIMUM SPREAD RATES: PERMABOND™ or METAL-PRIME must be applied at no more than 150 square feet per gallon. PERMAKOTE PLUS® must be applied at no more than 150 square feet per gallon per coat, resulting in an aggregate spread rate of 75 square feet per gallon for both coats.

Roof Coatings

Ambient Temperature of 77°F and RH of 50%

TECHNICAL SPECIFICATIONS:

Rates & Times May Vary Beyond Specifications

| | | | |
|----------------------|------------------------------|----------------|-----------------------------|
| FINISH: | Matte | SPREAD RATE: | 100 - 150 sq.ft. per gallon |
| COLOR: | White & Tint Base | DRY to TOUCH: | 2 to 4 Hours |
| VEHICLE TYPE: | Copolymer Emulsion | RECOAT: | 12 Hours |
| SOLIDS by WEIGHT: | 64% +/- 2% | CURE TIME: | 5 to 7 Days |
| SOLIDS by VOLUME: | 50% +/- 2% | SIZES: | 1 Gal., 5 Gal., 55 Gal. |
| V.O.C.'s (averages): | .34 lbs./gal. • 41.0 g/liter | GALLON WEIGHT: | 11.8 lbs. +/- .3 lbs. |

Information presented on this Data Sheet has been compiled from sources to be reliable, and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so.

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.



MATERIALS HEALTH, SAFETY AND ENVIRONMENTAL DATA SHEET

**MSDS#:
7530**

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| Product Identification | Product Name: PERMAKOTE PLUS® Product Code #: 7530 General Usage: Exterior Roof Coating Finish Coat General Description: Pigmented Latex Coating C.A.S. Number: None Established; Mixture | |
| Manufacturer Information | Manufacturer's Name: Nationwide Protective Coating Mfrs., Inc. Address: 7106 24th Court East; Sarasota, FL 34243-3993 Emergency Telephone: 1-800-423-7264 or 941-753-7500 Information: 1-800-423-7264 or 941-753-7500 Web Site: www.nationwidecoatings.com E-Mail: info@natcoat.net Date Effective: January 1 st , 2005 | |
| Chemical and Physical Properties | Color: White Physical State: Liquid Boiling Point: 212 Fahrenheit Specific Gravity (H ₂ O=1): >1 Vapor Presence: about same as H ₂ O Percent Volatile: 32-37% Evaporation Rate (Butyl Acetate=1): <1 | Odor: Pungent Odor Odor Threshold: Unknown Melting Point: N/A Freezing Point: 32 Fahrenheit Solubility in H ₂ O: Soluble pH (undiluted): 8 to 8.5 Vapor Density (Air=1): <1 |
| Ingredients C.A.S. Numbers | Modified Acrylic Polymer Titanium Dioxide Calcium Carbonate Zinc Borate Barium Sulfate Ethylene Glycol Ammonia Trimethyl Pentandiol Monoisobutyrate Mineral Spirits Ceramic Micro Spheres | Proprietary (non-hazardous) C.A.S. #: 13463-67-7 C.A.S. #: 1317-65-3 C.A.S. #: 138265-88-0 C.A.S. #: 7727-43-7 C.A.S. #: 107-21-1 C.A.S. #: 7664-41-7 C.A.S. #: 25265-77-4 C.A.S. #: 8052-41-3 C.A.S. #: 66402-68-4 |
| Fire Protection Information | Decomposition/Combustion: Flash Point: Recommended Extinguishing Media: Flammable Limits: | N/A N/A; Does Not Burn N/A N/A |
| Storage and Reactivity | Hazardous Polymerization: Storage Conditions: Toxic Products Which May Form: | Will Not Occur Keep from Freezing None |
| Transportation | Hazard Classes: Hazard Labels: Hazard Determination: Shipping Containers: Shipping Class: | None; Not Hazardous Not Required MSD Sheet Varies Class 55; Water Based Paint |

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|---------------------------------|--|---|
| Health Hazard Data | SHORT TERM EXPOSURE | |
| | Route of Entry: Inhalation: Skin: Eyes: Ingestion: | Precautionary Treatment Expected None Expected None Flush Immediately with large amounts of water for at least 15 minutes, holding eyelids open. Call a physician if irritation persists Call a physician if significant amounts have been Swallowed. Give patient large amounts of water or milk for dilution. |
| Personal Protection | LONG TERM EXPOSURE | |
| | Carcinogen: Target Organ Effects: Other Health Hazards: | None None None Known |
| Spill or Leak Protection | Respiratory Protection: Protective Clothing: Ventilation: Other Protective Measures: Eye Protection: | No inhalation hazard expected None Required Local None Safety Glasses |
| Treatability | Accidental Release or Spill: Neutralizing Chemical/Media: | Collect liquid or solidify with absorbent package for disposal N/A |
| Labeling | Biodegradability: With water prior to cure. Influence on Biological Wastewater Treatment: None Other Impacts on Wastewater Treatment: None Recommended Wastewater Treatment: Dilutable Constituents Interfering With or Not Amenable to Biological or Wastewater Treatment: None | |
| Waste Disposal | Explanation of Unique Labeling System: None Used Dispose of in accordance with Federal, State and Local guidelines. | |

EMERGENCY & INFO: 1-800-423-7264

Form based on O.S.H.A. Form 20. Information presented herein has been compiled from sources to be reliable and is accurate and reliable to be the best of our knowledge and belief but is not guaranteed to be so.

EMERGENCY & INFO: 941-753-7500