



ELASTOMERIC ACRYLIC CERAMIC
PERMAGARD®
HIGH BUILD EXTREME DURABILITY
MATTE FINISH PROTECTIVE ROOF COATING



15 YEAR
LIMITED
MATERIAL
WARRANTY

PRODUCT DATA
#7522
ASTM D-6083
03/27/13
superseding: 10/01/12

PRODUCT DESCRIPTION:

PERMAGARD® is a Matte Finish, Bright White, Reflective, Elastomeric Acrylic, Ceramic, Waterproofing, 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 roofing surface. It forms a thick rubber like ceramic shield of protection that expands and contracts with varying hot and cold temperatures, plus has excellent resistance to thermal shock. Unsurpassed in technology, **PERMAGARD®** 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. **PERMAGARD®** is ASTM D-6083 Compliant and qualifies for a CLASS A Fire Rating Test as per ASTM E84-01, NFPA 101 Life Safety Code. This easy to apply 15 Year Roof Coating System will provide many years of durable protection and outstanding beauty, and will extend the roof's life. **PERMAGARD®** is an inexpensive alternative solution to roofing and re-roofing. **PERMAGARD®** offers a 15 YEAR LIMITED MATERIAL WARRANTY (see Warranty Compliance Information Section Below).

PERMAGARD® USES:

Recommended for well draining, SLOPED roofing surfaces only (see Warranty Compliance 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. **PERMAGARD®** is ideal for residential, commercial and industrial applications. For flat roofs or limited ponding water situations inquire about **PERMAKOTE PLUS®**, Limited Ponding Water Roof Coating.

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. **PERMAGARD®** will resist mildew growth, but will not kill mildew already on the surface. Patch any holes, cracks, flashings, valleys, vents, etc., with **PERMAPATCH™**, a Waterproof 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 **PERMAGARD®** 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™** or **PERMAPRIME™** 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 all 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 **PERMAGARD™** 15 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).

SLOPED ROOFS ONLY: This Warranty is available for well draining, sloped roofing surfaces only. Slope of roof must be greater than 1" per 24" or an angle greater than 4 degrees, otherwise inquire about **PERMAKOTE PLUS®** Limited Ponding Water Roof Coating for Flat Roofing Surfaces.

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

MINIMUM SPREAD RATES: **PERMABOND™**, **PERMAPRIME™** or **METAL-PRIME RED-OX™** must be applied at no more than 150 square feet per gallon. **PERMAGARD™** must be applied at no more than 125 square feet per gallon per coat, resulting in an aggregate spread rate of 67.5 square feet per gallon for both coats.

*A 12 YEAR LIMITED MATERIAL WARRANTY is available when applied as a two coat system, without primer, resulting in a 16 mil dry film thickness.

Ambient Temperature of 77°F and RH of 50% **TECHNICAL SPECIFICATIONS:** Rates & Times May Vary Beyond Specifications

FINISH:	Matte	SPREAD RATE:	100 - 125 sq.ft. per gallon
COLOR:	White, Deep & Clear Base	DRY to TOUCH:	2 to 4 Hours
VEHICLE TYPE:	Copolymer Emulsion	RECOAT:	12 Hours
SOLIDS by WEIGHT:	65% +/- 2%	CURE TIME:	5 to 7 Days
SOLIDS by VOLUME:	51% +/- 2%	SIZES:	1 Gal., 5 Gal., 55 Gal.
V.O.C.'s (averages):	.38 lbs./gal. • 46.0 g/liter	GALLON WEIGHT:	11.7 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#:
7522**

Product Identification	Product Name: PERMA; 5 F8! Product Code #: 7522 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. 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: 31-36% 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
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
Container Labeling	Explanation of Unique Labeling System: None Used	

Health Hazard Data	SHORT TERM EXPOSURE	
	Route of Entry: Inhalation: Skin: Eyes:	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
	Ingestion:	Call a physician if significant amounts have been Swallowed. Give patient large amounts of water or milk for dilution.
	LONG TERM EXPOSURE	
	Carcinogen: Target Organ Effects: Other Health Hazards:	None None None Known
Personal Protection	Respiratory Protection: Protective Clothing: Ventilation: Other Protective Measures: Eye Protection:	No inhalation hazard expected None Required Local None Safety Glasses
Spill or Leak Protection	Accidental Release or Spill: Neutralizing Chemical/Media:	Collect liquid or solidify with absorbent package for disposal N/A
Treatability	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	
Recommended Waste Disposal	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