



100% ACRYLIC (SOLVENT)
PERMAGLAZE™
CLEAR GLOSS
EPOXY STONE GLAZE

PRODUCT DATA
#515-S

06/20/07
superseding: 02/13/07

PRODUCT DESCRIPTION:

PERMAGLAZE™ is a solvent acrylic, epoxy finish, clear gloss, sealer and preservative. It is a protective, decorative and long lasting all-purpose sealer that offers the unique combination of superior abrasion resistance, gloss retention and adhesion to exposed aggregate finishes. It has excellent penetration on porous surfaces and superior adhesion on non-porous or compatible previously coated surfaces. Use anywhere hard surface floors need brightening and sealing. It provides a tough uniform non-yellowing clear gloss film that will seal out water and dirt and is an easily maintained protective sealer that will last for many years with easy application and excellent recoatability.

PRODUCT USES:

PERMAGLAZE™ can be used as a Clear Sealer, Clear Brick Sealer and/or Clear Floor Sealer on most any interior or exterior masonry or concrete, cement bonded stone or epoxy bonded stone surfaces such as driveways, patios, courts, floors, walkways, pool decks, river gravel, table tops, decoupage, and much more. It can be used on either uncoated or previously painted or stained surfaces. Fresh concrete must cure at least 28 days before being sealed. For residential, commercial and industrial applications. PERMAGLAZE™ may not be compatible over some previously coated surfaces such as products with silicone. To ensure compatibility, test a small area and check after 48 hours.

SURFACE PREPARATION:

For proper adhesion and penetration it is essential that the surface is prepared properly. Surface must be pressure washed with a water and chlorine solution using at least 1500 P.S.I. to remove all previous coatings, dirt, grease, and other foreign materials, especially mold, mildew and algae. Rinse well with water and allow to dry completely, for at least 24 hours before applying PERMAGLAZE™. The surface must be dry and free from all wax, grease, oil, dirt, loose or flaking material and soap deposits. Allow surface to dry completely before applying sealer since moisture may cause a milky white color to appear.

APPLICATION PROCEDURE:

Stir or mix contents thoroughly. Do not thin, use product as is. Apply either by roller, brush or spray. Apply at temperatures above 45 degrees Fahrenheit. Apply uniformly and spread a thin even coat; do not leave any puddles or build ups. Be sure to cover surface completely using overlapping roller or spray pattern. Let dry 4 to 6 hours between coats. Two coats are recommended and in severe cases a third coat may be necessary. Gloss will increase with film build-up. Porous surfaces will not show a gloss until completely sealed and a film begins to form.

Clean Up: Clean up all spills, tools and overspray immediately while the coating is still wet with mineral spirits.

CAUTION:

Flammable mixture. Do not use near fire or flame. Contains Mineral Spirits. Use with adequate ventilation. Avoid breathing vapor and avoid prolonged contact with skin. Do not take internally. In case of ingestion, drink milk and induce vomiting. Call a physician immediately.

KEEP AWAY FROM CHILDREN.

TECHNICAL SPECIFICATIONS: Ambient Temperature of 77°F and RH of 50%

FINISH:	Gloss	SPREAD RATE:	200 to 300 sq.ft./gal.
COLOR:	Clear	DRY to TOUCH:	2 to 4 Hours
VEHICLE TYPE:	Solvent Acrylic	RECOAT:	4 to 6 Hours
SOLIDS by WEIGHT:	18% +/- 2%	CURE TIME:	5 to 7 Days
SOLIDS by VOLUME:	16% +/- 2%	SIZES:	1 Gallon
V.O.C.'s (averages):	n/a	GALLON WEIGHT:	8.8 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 #515

Full size 6 page copy of this MSD Sheet is available, please inquire.

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product ID: Penuglaze Solvent Base
 Generic Description: Acrylic Clear Sealer
 Product Use: Decorative Coating
 Effective Date: 01/01/98
 superseding: 12/01/95

For Customer Service/Technical Information, contact:
 NATIONWIDE CHEMICAL COATING MFRS., INC.
 6067 17th Street East
 Bradenton, Florida 34203
 (941) 753-7500

Emergency Phone: 1-800-423-7264

HAZARD RATINGS		
	HMIS	NFPA
Health	1	1
Fire	2	2
Reactivity	0	0
	* = Chronic	

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMMON NAME	CAS #	Approximate % (w/w)
Mineral Spirits	8052-41-3	77 - 80
Non-hazardous and other ingredients below reportable levels	Proprietary	Balance

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: COMBUSTIBLE LIQUID AND VAPOR (FLAMMABLE IF SHIPPED BY AIR/VESEL). INHALATION MAY CAUSE DIZZINESS, HEADACHE AND INCOORDINATION. INGESTION CAN CAUSE DIZZINESS, FAINTNESS, HEADACHE AND INCOORDINATION. INGESTION MAY CAUSE INFLAMMATION OF THE LUNGS. MAY CAUSE MODERATE EYE IRRITATION. MAY CAUSE DIGESTIVE TRACT IRRITATION. INGESTION MAY CAUSE NAUSEA, VOMITING, PAIN, UPSET STOMACH. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. See sections 3, 5 & 6.

PRIMARY ROUTES OF EXPOSURE: Eye, Skin, Inhalation (breathing).

EYE CONTACT: May cause moderate irritation. Can cause burning sensation, tearing, and redness.

SKIN CONTACT: Incidental contact is not expected to cause irritation. Prolonged or repeated contact may dry the skin and lead to irritation (i.e. dermatitis). Can cause redness, itching, and burning sensation.

INHALATION (Breathing): Irritating to the eyes, nose, and respiratory tract. Can cause dizziness, headaches, and incoordination. Nausea, vomiting, and stomach upset can occur. Can cause anesthetic and/or narcotic effects.

when vapors, mists, or dusts can be released in excess of established airborne exposure limits (TLVs or PELs).

EYE PROTECTION: Wear chemical splash goggles and a full-face shield.

SKIN PROTECTION: Wear protective clothing and appropriate impervious gloves. Because a variety of protective gloves exist, consult glove manufacturer to determine the proper type for a specific operation.

RESPIRATORY PROTECTION: Avoid breathing vapor and/or mists. Wear NIOSH/MSHA-approved equipment. Determine the appropriate type by consulting the respirator manufacturer. High airborne concentrations may necessitate the use of self-contained breathing apparatus (SCBA) or a supplied air respirator. Respiratory protection programs must be in compliance with 29 CFR 1910.134.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance.... See Section 1
 Physical State: Liquid
 pH..... Not Applicable
 Vapor Density: > 1 Air = 1
 VOC Material: Not Applicable
 Specific Grvty: 0.889
 Volatile (v/v): 68
 Odor..... Characteristic
 Solubility.... Insoluble
 Boiling Point.: 334F 167.7C
 Evaporation Rt: < 1 (Butyl acetate)
 VOC Coating...: 479.4 g/L 4 lbs/gal
 Non-Vol(v/w)...: 45
 Wt(lbs)/gal....: 7.4

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal conditions of use.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: High temperatures.

INCOMPATIBILITY WITH OTHER MATERIALS: Oxidizers.

11. TOXICITY INFORMATION

COMPONENTS:

Mineral spirits:
 Eye, skin, and respiratory tract irritant.

12. ECOLOGICAL INFORMATION
 No data are available on this product.

13. DISPOSAL CONSIDERATIONS

DISPOSAL: When a decision is made to discard this material as supplied, it meets RCRA's characteristic definition of ignitability.

GENERAL STATEMENTS: Federal regulations may apply to empty container. State and/or local regulations may be different.

GENERAL RECOMMENDATIONS: Of the methods of disposal currently available, it is recommended that an alternative be selected according to the following order of preference, based upon environmental acceptability: (1) recycle or

INGESTION (Swallowing): Irritating to the mouth, throat, and stomach. May cause nausea, vomiting, pain, and stomach upset (e.g., diarrhea). Can cause dizziness, faintness, headache, and incoordination. Possible aspiration hazard. May cause inflammation of the lungs.

TARGET ORGANS/CHRONIC EFFECTS: Nervous system. Lungs and respiratory system. Eyes. Skin.

CONDITIONS AGGRAVATED BY EXPOSURE: Skin.

CARCINOGENICITY:

Mineral spirits	ACGIH	IARC	NTF	OSHA
	No	No	No	No

4. FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Get prompt medical attention.

SKIN CONTACT: Immediately flush with water. Remove contaminated clothing and shoes. Get medical attention if irritation persists. Professionally wash clothing and shoes before re-use.

INHALATION (Breathing): Remove to fresh air. If symptoms develop, seek immediate medical attention. If not breathing, give artificial respiration.

INGESTION (Swallowing): Seek medical attention. Immediately induce vomiting, as directed by medical personnel. Never give anything by mouth to an unconscious person.

NOTES TO PHYSICIANS: Treatment should be directed at preventing absorption, administering to symptoms (if they occur), and providing supportive therapy.

5. FIRE FIGHTING METHODS

Flash Point...: 100F 37.7C Method.....: Tagliabue Closed Cup
 Explosive Lim: UEL(%) Not Determined UEL(L) Not Determined
 Autoignition...: Not Determined

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Smoke, soot, and toxic/irritating fumes (i.e., carbon dioxide, carbon monoxide, etc.). Acrylic monomers.

FIRE AND EXPLOSION HAZARDS: High temperatures can cause sealed containers to rupture due to - build up of internal pressure. Cool with water. Vapors can travel to a source of ignition (flame, electric motor, hot surface, cigarette, etc.) and flash back. During a fire, irritating and highly toxic gases may be generated during combustion or decomposition.

EXTINGUISHING MEDIA: SMALL FIRES: Dry chemical, carbon dioxide, halon, water spray, or foam. LARGE FIRES: Water spray, fog, or alcohol foam.

FIRE FIGHTING PROCEDURES/EQUIPMENT: Fire fighters and others who may be exposed to the products of combustion should be equipped with NIOSH-approved positive pressure self-contained breathing apparatus (SCBA) and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

rework, if feasible; (2) incinerate at an authorized facility; or (3) treat at an acceptable waste treatment facility.

SPECIAL INSTRUCTIONS: Be sure to contact the appropriate government environmental agencies if further guidance is required.

14. TRANSPORT INFORMATION

Weight (lb) Shipping Name	49 CFR IATA IMO
Fammable, Combustible Liquid, Non Reg in non-bulk pkg	Y
by DOT 173.150 (f)(2)	
Resin Solution	Y

DOT Label.....: Non-regulated UN/NA Id Num...: UN1866
 DOT Label No...: NA
 Hazard Class...: 3 (IATA/49CFR)
 Packing Group...: III

15. REGULATORY INFORMATION

FEDERAL:

This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

SARA Title III - Section 311/312 - Hazard Categories:
 Y- Fire Hazard
 N- Sudden Release of Pressure Hazard
 N- Reactivity Hazard
 Y- Immediate (acute) Health Hazard
 N- Delayed (chronic) Health Hazard

Ozone-Depleting Chemicals - No regulated ingredients.

SARA Section 302 Extremely Hazardous Mat - No regulated ingredients.

SARA Section 313 Toxic Chemicals - No regulated ingredients.

CHEMICAL LISTING - Listed on the following Country's Chemical Inventories:

European Union EINECS (Euro. Inventory of Chem. Subst.)
 Listed.

United States Toxic Substance Control Act
 Chemical component(s) in this product are on the section 8(b) Chemical Substance Inventory List (40 CFR 710).

STATE RIGHT-TO-KNOW:

Pennsylvania - New Jersey R-T-X	
Mineral spirits	8052-41-3 50 - 60
Non-hazardous trade secret ingredient(s)	Proprietary Balance

California - California Proposition 65 - No regulated ingredients.

New Jersey Trade Secret Registry Number: 346515000005167P

CONEG - No data available.

EVACUATION: Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Eliminate all sources of ignition.

CONTAINMENT: Safely stop discharge. Contain material, as necessary, with a dike or barrier. Stop material from contaminating soil, or from entering sewers or bodies of water.

CLEAN-UP/PERSONAL PROTECTION EQUIPMENT: Appropriate safety measures and protective equipment should be used. Use supplied air respirator or self-contained breathing apparatus in enclosed spaces or if airborne exposure limits can be exceeded. See Section 8.

COLLECTION AND DISPOSAL: Stop discharge, if safe to do so. Use proper protective equipment. Use non-sparking tools and/or explosion-proof equipment. Stop ignition sources. Cover spills with absorbent clay or sandust and place in closed chemical waste containers. Dispose of according to applicable local, state and federal regulations.

REPORTING: Spills of this material in excess of a component's RQ must be reported to the National Response Center (1-800-424-8802) and to the appropriate state and local emergency response organizations. No regulated ingredients.

7. HANDLING AND STORAGE

STORAGE CONDITIONS: Store in cool, dry, well ventilated area away from heat, ignition sources, and direct sunlight. Keep containers tightly closed.

WARNING: Hot organic chemical vapors or mists can suddenly and without warning combust when mixed with air. Ignition can occur at typical elevated temperature process conditions. Any use in such processes should be evaluated thoroughly to assure safe operating conditions.

TRANSFER: Containers should be supported and grounded before opening, dispensing, mixing, pouring, and emptying. Open with non-sparking tools. If container is warm, open bung slowly to release internal pressure.

PERSONAL HYGIENE: Wash thoroughly after handling, especially before eating, drinking, smoking, and using restroom facilities. Wash contaminated goggles, facefield, and gloves. Professionally launder contaminated clothing before re-use.

EMPTY CONTAINER PRECAUTIONS: Attention! This container hazardous when empty. Follow label warnings even after container is emptied since empty containers may retain product residues. Do not use heat, sparks, open flames, torches, cigarettes or on near empty container. Do not reuse empty container without professional cleaning for food, clothing, or products for human or animal consumption or where skin contact can occur.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES:

ACGIH - TLV	
Mineral spirits	100 ppm
OSHA - PEL	
Mineral spirits	100 ppm

ENGINEERING CONTROLS/VENTILATION: Local exhaust ventilation is recommended

CANADA:

This is a "controlled product" under the Canadian Workplace Hazardous Materials Information System (WHMIS).

Class B Division 3 Class D Division 2 Sub-division B

CEPA - NPRI - No regulated ingredients.

Canadian Chemical Inventory

Domestic Substance List
 Listed.

16. OTHER INFORMATION

USERS RESPONSIBILITY: A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions - in addition to those described herein - are required. Any health hazard and safety information herein should be passed on to your customers or employees, as the case may be.

DISCLAIMER OF LIABILITY: The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.

End of Material Safety Data Sheet