

# NanoPave®

## Hardscape Sealer



### PRODUCT SUMMARY:

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Enhance and protect hardscape surfaces using ultra-high clarity, nano-polymer sealer technology with NanoPave® Hardscape Sealer. This water-based, VOC-free, breathable sealer applies easily to interior or exterior hardscape surfaces and protects against UV degradation, staining, fading, and weather damage. Available in three finishes, NanoPave® Hardscape Sealer is the innovative, eco-friendly choice for most hardscape surfaces including pavers, natural stone, flagstone, bricks, aggregates, pebbles, and more.

### PACKAGES:

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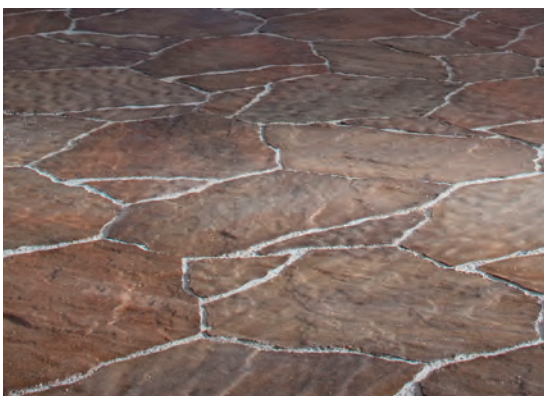
- 1-Gal bottle • 5-Gal bottle • 55-Gal drum • 275-Gal tote



### FEATURES & BENEFITS:

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- Water-based, VOC-free, nano-polymer technology
- Fast curing, long-lasting protection with ultra-high clarity
- Extreme temperature application range [40°F - 90°F]
- Suitable for application to dry or damp surfaces
- Resistant to blushing, staining, & cracking
- Eco-friendly, safe for interior, exterior, & landscape use
- Available in three breathable sheens
  - Natural Look Finish - Low Sheen
  - Enhanced Look Finish - Semi Gloss
  - Wet Look Finish - Gloss



### TYPICAL USES:

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- Indoor / Outdoor
- Pavers & Bricks
- New / Aged
- Natural Stone & Flagstone
- Pebbles
- Aggregates

### COVERAGE:

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- Up to 200 Ft<sup>2</sup> Per Gallon



TechniSoil NanoPave® Hardscape Sealer - Gloss

**1. PRODUCT & COMPANY IDENTIFICATION**

TRADE NAME: TechniSoil Global, Inc.  
 PRODUCT NAME: NanoPave® Hardscape Sealer  
**DISTRIBUTED BY:**  
 TechniSoil Global, Inc.  
 5660 Westside Rd. Redding, CA 96001  
 Toll Free: 877.356.2250

**24-HOUR EMERGENCY TELEPHONE NUMBER:**  
 Chemtrec: US: 800-424-9300  
 INTL: 703-527-3887

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

| COMPONENT:                     | RANGE:    | CAS NO:       |
|--------------------------------|-----------|---------------|
| Proprietary Nano-Polymer Blend | 11% - 42% | Not Hazardous |
| Water                          | 58% - 89% | Not Hazardous |

Volatile organic compound (VOC) levels for this product are <= 5 g/l.

**3. HAZARDS IDENTIFICATION**

| EMERGENCY OVERVIEW PHYSICAL APPEARANCE:              | HAZARD SUMMARY: CAUTION!  |
|--|---|
| Form: Liquid<br>Color: White, Milky<br>Odor: Acrylic | Inhalation of vapor or mist can cause headache, nausea and irritation of the nose, throat, and lungs. May cause eye and skin irritation |

**Potential Health Effects Primary Routes of Entry:**

***Inhalation, Eye contact, Skin contact***

Eyes: Direct contact with material can cause the following: slight irritation  
 Skin: Prolonged or repeated skin contact can cause the following: slight irritation  
 Inhalation: Inhalation of vapor or mist can cause the following: irritation of nose, throat, and lungs headache nausea

**4. FIRST AID MEASURES**

- Inhalation: Move to fresh air.
- Skin contact: Wash with water and soap as a precaution. If skin irritation persists, call a physician.
- Eye contact: Rinse with plenty of water. If eye irritation persists, consult a specialist.
- Ingestion: Drink 1 or 2 glasses of water. Consult a physician if needed.
- Never give anything by mouth to an unconscious person.

**5. FIRE FIGHTING MEASURES**

- Flash point: Noncombustible
- Lower explosion limit: Not Applicable
- Upper explosion limit: Not Applicable
- Thermal decomposition: May yield acrylic monomers.
- Suitable extinguishing media: Media appropriate for surrounding fire.
- Specific hazards during fire fighting: Material can splatter above 100C/212F. Dried product can burn.
- Special protective equipment for fire-fighters: Wear self-contained breathing apparatus and protective suit.



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**6. ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS**

Use personal protective equipment.  
 Keep people away from and upwind of spill/leak.  
 Material can create slippery conditions.

**ENVIRONMENTAL PRECAUTIONS**

Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

**METHODS FOR CLEANING UP**

Contain spills immediately with inert materials (e.g., sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

**7. HANDLING & STORAGE**

**HANDLING**

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container tightly closed. Do not breathe vapors, mist or gas. Further information on storage conditions: Keep from freezing - product stability may be affected. Stir well before use.

**STORAGE**

Storage temperature: 40 - 90 °F (4.44 - 32.2 °C)  
 Other data: Monomer vapors can be evolved when material is heated during processing operations. See SECTION 8, for types of ventilation required. NOTE: Formaldehyde will be generated under acidic conditions. Maintain adequate ventilation under these conditions to prevent exposure to formaldehyde above the Rohm and Haas Co. recommended ceiling of 0.3 ppm.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**EXPOSURE LIMIT(S)**

Exposure limits are listed below, if they exist.

| COMPONENTS | REGULATION | LISTING TYPE | VALUE |
|------------|------------|--------------|-------|
|------------|------------|--------------|-------|

----- Not Applicable -----

**EYE PROTECTION:** Safety glasses with side-shields Eye protection worn must be compatible with respiratory protection system employed.

**HAND PROTECTION:** The glove(s) listed below may provide protection against permeation. (Gloves of other chemically resistant materials may not provide adequate protection): Neoprene gloves published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.



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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION (CONTINUED)**

**RESPIRATORY PROTECTION:** A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements or equivalent must be followed whenever workplace conditions warrant a respirator's use. None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. For airborne concentrations up to 10 times the exposure limit, wear a properly fitted NIOSH approved (or equivalent) half-mask, air-purifying respirator. Air-purifying respirators should be equipped with NIOSH approved (or equivalent) N95 filters. If oil mist is present, use R95 or P95 filters.

**PROTECTIVE MEASURES:** Facilities storing or utilizing this material should be equipped with an eyewash facility.

**ENGINEERING MEASURES:** Use local exhaust ventilation with a minimum capture velocity of 100 ft/min. (0.5 m/sec.) at the point of vapor evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE**

Form: liquid  
 Colour: white milky  
 Odor: acrylic

| COMPONENT                        | VALUE                               |
|----------------------------------|-------------------------------------|
| pH                               | 6.0 - 8.0                           |
| Boiling point/boiling range      | 100 °C ( 212.00 °F) Water           |
| Melting point/range              | 0 °C ( 32 °F)                       |
| Flash point                      | Noncombustible                      |
| Lower explosion limit            | Not Applicable                      |
| Upper explosion limit            | Not Applicable                      |
| Vapour pressure                  | 17.0 mmHg at 20 °C (68.00 °F) Water |
| Relative vapour density          | <1.0 Water                          |
| Water solubility                 | Miscible                            |
| Relative density                 | 1.00 - 1.20                         |
| Viscosity, dynamic               | 80 - 400 mPa.s maximum              |
| Evaporation rate                 | <1.00 Water                         |
| Percent volatility               | 37 - 39 % Water                     |
| Volatile organic compounds (VOC) | <= 5 g/L                            |

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

**10. STABILITY & REACTIVITY**

Hazardous reactions ..... None known. Stable  
 Materials to avoid ..... There are no known materials which are incompatible with this product.  
 Polymerization ..... Product will not undergo polymerization.

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**11. TOXICOLOGICAL INFORMATION**

No data are available for this material. The information shown is based on profiles of compositionally similar materials.

|                       |  |
|-----------------------|--|
| Acute oral toxicity   | LD50 rat > 5,000 mg/kg                 |
| Acute dermal toxicity | LD50 rabbit > 5,000 mg/kg              |
| Skin irritation       | rabbit May cause transient irritation. |
| Eye irritation        | rabbit No eye irritation               |

**12. ECOLOGICAL INFORMATION**

THERE IS NO DATA AVAILABLE FOR THIS PRODUCT.

**13. DISPOSAL CONSIDERATIONS**

**ENVIRONMENTAL PRECAUTIONS**

Keep spills and cleaning runoff out of municipal sewers and open bodies of water. **DISPOSAL WASTE CLASSIFICATION:** When a decision is made to discard this material as supplied, it does not meet RCRA’s characteristic definition of ignitability, corrosivity, or reactivity, and is not listed in 40 CFR 261.33. The toxicity characteristic (TC), however, has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP). Coagulate the emulsion by the stepwise addition of ferric chloride and lime. Remove the clear supernatant and flush to a chemical sewer. For disposal, incinerate or landfill at a permitted facility in accordance with local, state, and federal regulations.

**14. TRANSPORT INFORMATION**

|                 |                               |
|-----------------|-------------------------------|
| <b>DOT</b>      | Not regulated for transport   |
| <b>IMO/IMDG</b> | Not regulated (Not hazardous) |

**15. REGULATORY INFORMATION**

|  |   |
|--|---|
| <b>WORKPLACE CLASSIFICATION</b>                                    | This product is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR1910.1200). This product is not a ‘controlled product’ under the Canadian Workplace Hazardous Materials Information System (WHMIS).   |
| <b>SARA TITLE III: SECTION 311/312 CATEGORIZATIONS (40CFR370):</b> | This product is not a hazardous chemical under 29CFR 1910.1200, and therefore is not covered by Title III of SARA.  |
| <b>SARA TITLE III: SECTION 313 INFORMATION (40CFR372)</b>          | This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.  |
| <b>CERCLA INFORMATION (40CFR302.4)</b>                             | Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304. |

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**15. REGULATORY INFORMATION (CONTINUED)**

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|---|--|
| <b>US. TOXIC SUBSTANCES CONTROL ACT (TSCA):</b> | All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.   |
| <b>PENNSYLVANIA</b>                             | Any material listed as "Not Hazardous" in the CAS REG NO. column of SECTION 2, Composition/Information On Ingredients, of this MSDS is a trade secret under the provisions of the Pennsylvania Worker and Community Right-to-Know Act. |

**16. OTHER INFORMATION**

**HAZARD RATING:**

|      | HEALTH | FIRE | REACTIVITY |
|------|--------|------|------------|
| HMIS | 1      | 0    | 0          |

**LEGEND**

|              |   |
|--------------|---|
| <b>ACGIH</b> | American Conference of Governmental Industrial Hygienists |
| <b>BAC</b>   | Butyl acetate   |
| <b>OSHA</b>  | Occupational Safety and Health Administration             |
| <b>PEL</b>   | Permissible Exposure Limit                                |
| <b>STEL</b>  | Short Term Exposure Limit (STEL)                          |
| <b>TLV</b>   | Threshold Limit Value                                     |
| <b>TWA</b>   | Time Weighted Average (TWA)                               |
| "   "        | Bar denotes a revision from prior SDS                     |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.

The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.