

DuPont™ Zonyl® 9338

Penetrating Sealer for Porous Surfaces

Description

Zonyl® 9338 is a water-borne fluorochemical solution that provides a durable, subsurface, transparent, protective barrier against oil and water on porous surfaces such as stone, tile, and grout.

The product is used in water-based penetrating sealers for stone, unglazed tile, grout, terra cotta, and other porous surfaces such as concrete and brick. Zonyl® 9338 provides oil and water repellency, stain resistance, and easy stain cleanup.

Features and Benefits

<i>Because Zonyl® 9338 . . .</i>	<i>It Can . . .</i>
Is a fluorochemical, instead of a silicone/wax product	<ul style="list-style-type: none">• provide a protective barrier that repels both water AND oil and allows easy removal of these soils.
Requires no resin binder system	<ul style="list-style-type: none">• provide transparent vapor-permeable protection with no effect on appearance.
Chemically bonds to the surface	<ul style="list-style-type: none">• provide durable protection.

<i>Frequently Asked Questions</i>	<i>Answers</i>
What is the appropriate application level?	Zonyl® 9338 is diluted to 7.5–12% working strength with water. The optimum level should be determined for each application.
Is Zonyl® 9338 compatible with other materials?	Zonyl® 9338 is anionic and is usually compatible with other materials in a blended system. We recommend that blended systems be checked for in-can stability.
Does the treatment work in outdoor environments?	Because the treatment works under the surface, it provides protection in UV exposure after the initial properties are reduced. Liquids will appear to cover the surface but will not penetrate and carry stains. It will also allow porous surfaces to dry more quickly after wet weather.
Will the surface become slippery?	Porous surfaces have no appreciable difference in coefficient of friction (both wet and dry) after treatment.
How should the product be applied?	Low pressure garden-type sprayer or saturated brush, roller, or mop application can be used.

Typical Properties*

Solids	20% weight
Density at 25°C (77°F)	1.095 g/mL, 9.14 lb/gal
pH	6.5–7.5
Flash Point	Nonflammable
Stability	Minimum two years under normal conditions. Protect from freezing. Bring to room temperature and stir before using.
Solvent	Water

*Not for specification purposes

Performance

Zonyl® 9338 (diluted to 9.9% product in water), a solvent-based silicone sealer, and a leading aqueous silicate sealer, were each applied to saltillo (Mexican clay) tile and sandstone and allowed to dry for three days. Corn oil, Italian dressing, ketchup, mustard, grape jelly, red wine, and hot coffee were then placed on the treated substrates. After 24 hr, the stones were washed with a mild detergent solution and allowed to dry. The remaining stains were rated as follows: 0 = No stain, 1 = Very light stain, 2 = Light stain, 3 = Moderate stain, 4 = Heavy stain. The ratings were totaled for each stone sample. The results below show that Zonyl® 9338 outperforms conventional silicone and silicate sealers, including solvent-based products. Similar results have been achieved on other stone substrates such as marble.

Treatment	Saltillo	Sandstone
Zonyl® 9338	9	12
Silicone (Solvent-based)	21	13
Silicate (Aqueous)	19	18
Untreated	25	26

Personal Safety, First Aid, and Storage and Handling

See the Material Data Sheet (MSDS) for product specific information. Mix well before using.

Technical Assistance

For help in selecting or evaluating these products for your application, please call DuPont's technical service experts at 866-828-7009.

Ordering Information—Product, Literature, or Samples

To place an order for DuPont Zonyl® 9338, call DuPont Performance Chemicals Customer Service toll free at 800-441-9140. For additional literature or a product sample, call 866-828-7009. For locations outside the United States, contact the local DuPont representative in your country.

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