

DuPont™ Zonyl® 9977

PENETRATING SEALER FOR POROUS SURFACES

Description

DuPont™ Zonyl® 9977 is a waterborne fluorochemical solution that can be used in water-based penetrating sealers to provide a durable, non-film-forming, transparent, protective barrier against oil and water on porous surfaces such as stone, unglazed tile,

grout, terra cotta, concrete and brick. Zonyl® 9977 provides excellent oil and water repellency, stain resistance, and easy stain cleanup. Zonyl® 9977 is registered on both the U.S. TSCA and European EINECS inventories.

Features and Benefits

Because Zonyl® 9977 . . .

Is a fluorochemical, instead of a silicone/wax product

Requires no resin binder system

Chemically bonds to the surface

It Can . . .

- provide a protective barrier that repels both water AND oil and allows easy removal of aqueous and oily soils
- provide transparent vapor-permeable protection with no effect on appearance
- provide durable protection

Questions and Answers

Frequently Asked Questions

What is the appropriate application level?

Is Zonyl® 9977 compatible with other materials?

Is the protection provided by a waterborne solution comparable to a solvent-based product?

How should the product be applied?

Is dilution with water all that is required?

Answers

Zonyl® 9977 is diluted to 5–20% working strength with water. Soft water (<50 ppm hardness) must be used for dilution. If blended, maintain pH >6. The optimum level should be determined for each application.

Zonyl® 9977 is anionic and is usually compatible with other materials in a blended system (except cationic additives). We recommend that blended systems be checked for stability.

Testing demonstrates that waterborne Zonyl® fluorinated products penetrate into the surface and provide the best stain protection available.

Brush, mop, roller or paint pad application can be used. Thoroughly wet the surface being treated with diluted Zonyl® 9977, and remove excess liquid after 15–30 min. A second coat is recommended to ensure complete coverage.

Yes; however, we recommend adding a biocide such as Proxel® GXL (from Arch Chemicals) to diluted Zonyl® 9977 for extended in-can preservation.



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Typical Properties*

Solids, wt%	22
Density at 25°C (77°F)	1.15 g/mL, 9.6 lb/gal
pH	6–8
Flash Point	Non-flammable
Stability	Minimum one year under normal conditions. Perishable if frozen.
Solvent	Water
VOC	0 g/l

*Not for specification purposes

Personal Safety, First Aid, and Storage and Handling

See the Material Safety 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® 9977, call Surface Protection Solutions Customer Service toll free at 800-441-9140. For additional literature or a product sample, please call 866-828-7009. For locations outside the United States, contact the local DuPont representative in your country.

Performance Comparison

Treatment	Oil Repellency	Water Repellency	Stain Resistance
Zonyl® 9977	Excellent	Excellent	Excellent
Silicone	Poor	Excellent	Good
Untreated	None	None	Very poor

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