

DuPont™ Zonyl® 9027

Penetrating Sealer for Porous Surfaces

Description

Zonyl® 9027 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® 9027 provides oil and water repellency, stain resistance, and easy stain cleanup. Zonyl® 9027 is registered on both the U.S. TSCA and European EINECS inventories.

Features and Benefits

<i>Because Zonyl® 9027 . . .</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® 9027 is diluted to 2–8% working strength with water. The optimum level should be determined for each application. Soft water (<50 ppm hardness) must be used for dilution. If blended, maintain pH >6.
Is the repellency durable?	Yes, concrete panels treated with Zonyl® 9027 bead mineral oil after prolonged weathering. Zonyl® 9027 provides good repellency to many surfaces, but durability is best for porous materials.
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	34% weight
Density at 25°C (77°F)	1.10 g/mL, 9.2 lb/gal
pH	7-9
Flash Point	21°C (70°F) (Pensky Martens Closed Cup)
Stability	Minimum one year under normal conditions. Freeze-thaw stable. Bring to room temperature and stir before using.
Solvent	Isopropanol (25%) and water

*Not for specification purposes

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.

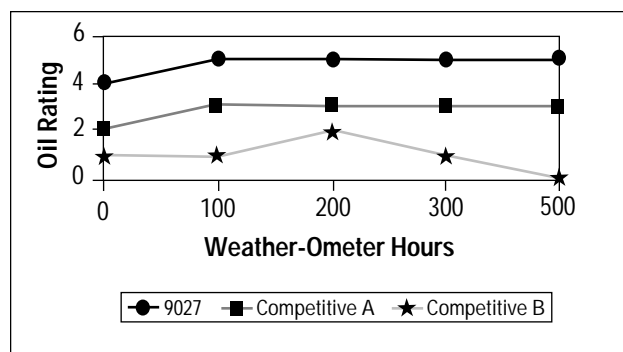
Ordering Information—Product, Literature, or Samples

To place an order for DuPont Zonyl® 9027, 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.

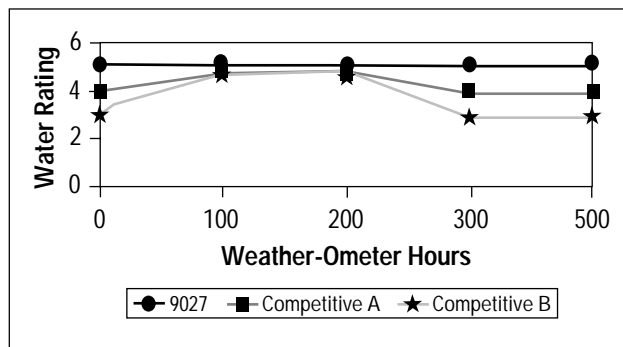
Performance

Zonyl® 9027 was applied to a cement block as a solution of 5% product in water. For comparison, a competitive oil-repellent masonry treatment and a leading water-repellent masonry sealant were also applied to cement blocks according to the manufacturers' directions. The treated pieces were rated for repellency by placing drops of motor oil and water on the treated surface and rating the degree of beading. Higher oil and water ratings indicate better repellency of the treated surface. Zonyl® 9027 demonstrates superior oil repellency and excellent water repellency, even after accelerated weathering in a Weather-Ometer. Similar performance has also been demonstrated on brick and patio block.

Oil Repellency



Water Repellency



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