

DuPont™ Zonyl® 8740

PENETRATING SEALER FOR POROUS SURFACES

Description

DuPont™ Zonyl® 8740 is an aqueous fluorochemical dispersion that provides a durable, subsurface, transparent protective barrier against oil and water on porous mineral surfaces such as stone and tile. The product is used in water-based penetrating sealers for stone, unglazed tile, grout, terra cotta, and other porous

mineral surfaces such as concrete and brick. Provides oil and water repellency, stain resistance, and easy stain cleanup. Zonyl® 8740 is registered on both the U.S. TSCA and European EINECS inventories.

Features and Benefits

Because Zonyl® 8740 . . .

Is a waterborne dispersion

Is a fluorochemical, instead of a silicone/wax product

Requires no resin binder system

Chemically bonds to the surface

It Can . . .

- provide very low VOC penetrating sealers
- repel both water AND oil borne stains
- provide transparent, subsurface vapor-permeable sealers with no effect on appearance
- provide durable protection

Questions and Answers

Frequently Asked Questions

What is the appropriate applications level?

Is the repellency durable?

How should the product be applied?

Should I add a biocide to my formulation?

Answers

Zonyl® 8740 should be diluted to 3–8% working strength with deionized or tap water. The optimum level should be determined for each application. If blended, maintain below pH 6.

Yes. Concrete panels treated with Zonyl® 8740 bead mineral oil after prolonged weathering. Zonyl® 8740 provides good repellency to many surfaces, but durability is best for porous materials.

Low pressure garden-type sprayer or saturated brush, roller, or mop application can be used.

We recommend adding a biocide such as Proxel GXL (from Zeneca Biocides) to diluted Zonyl® 8740 to for extended in-can prevention.



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Typical Properties*

Solids, wt%	30
Density at 25°C (77°F)	1.095 g/mL, 9.14 lb/gal
Viscosity at 25°C (77°F)	<250 cP
pH	4.5–5.0
Flash Point	>93°C (>200°F) (Pensky Martens Closed Cup)
Stability	Minimum two years under normal conditions. Stir before using. Bring to room temperature and stir before using.
VOC Content	<50 g/L excluding water <15 g/L including water <1.5% of product

*Not for specification purposes

Performance

DuPont™ Zonyl® 8740 (diluted to 6.5% product in water), a leading solvent-based silicone sealer, and a leading aqueous siliconate 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® 8740 outperforms conventional silicone and siliconate sealers, including solvent-based products. Similar results have been achieved on other stone substrates such as marble.

Treatment	Saltillo	Sandstone
Zonyl® 8740	14	6
Silicone (solvent-based)	21	13
Siliconate (aqueous)	19	18
Untreated	25	26

Formulating Information

Containers of Zonyl® 8740 must be stirred prior to use, as some settling does occur. Settling is greatly reduced once the product is diluted. A biocide such as Proxel GXL (from Zeneca Biocides) should be added to diluted Zonyl® 8740 for extended in-can preservation.

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® 8740, 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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