

DuPont™ Zonyl® 321

Fluorinated Acrylic Copolymer

Building Applications

Zonyl® 321 is a fluorinated resin in a water solvent medium. When applied to building materials, such as concrete, limestone, bricks, natural stones, terra cotta, etc., it imparts:

- Excellent water resistance and
- Excellent oil repellency

It does not modify the appearance of materials (no film-forming effect) nor affect the gas permeability of materials.

Typical Characteristics

Please refer to the product specifications data sheet for guaranteed commercial specifications.

Appearance	Amber clear
Type	Cationic
Density at 20°C (68°F)	1.14
pH	4–5
Flash point (closed cup)	None
Viscosity (Brookfield) at 25°C (77°F)	200 ± 50 cP

Typical Analysis

- Active solids, % 25
- Water, % 47
- Solvents, % 28

Zonyl® 321 has no toxic characteristics.

Handling and Storage

(see Material Safety Data Sheet)

Zonyl® 321 can be diluted with hard water. Zonyl® 321 must be stored in original closed drums at temperatures of 5–40°C (41–104°F).

Zonyl® 321 has excellent storage stability. Minimum storage stability under normal conditions: 6 months.

Application

Zonyl® 321 is generally used in a water solution at a ratio of 5–10% of the commercial product. It can be applied with a brush, a roller or a spray on a dry or damp or even soaked medium. Generally, the product is applied in one or two layers of 100–200 g/m² of Zonyl® 321 solution. For maximum effect, we recommend saturating the substrate with the Zonyl® 321 solution.

Zonyl® 321 is compatible with nonionic and cationic products; the addition of polyvinyl alcohol (PVA) is recommended to improve water and oil repellency for very porous materials.

Example: Protection of Concrete for Outside

- Solution composition:

Zonyl® 321	50–100 g/L
PVA	10–20 g/L
- Application: by brush to deposit 300 g/m² of solution

Note: The preliminary stage of blending is the preparation of the PVA solution. This product is a white powder, and, therefore, to make it soluble in water, it needs to be heated to 90°C (194°F) for 20–30 min while being stirred.

Zonyl® 321—PVA solutions are stable in storage for many months.

U.S. Sales and Services

For placing orders or requesting additional product information, please use our convenient 24-hour, toll-free telephone number. If you prefer, you can write to us.

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