

Durle® WP-413 Water-based Polyethersulfone Dispersion

Product Durle® WP-413 Polyethersulfone (PES) Dispersion is prepared from polyethersulfone material.

Introduction Coatings made from this product exhibit excellent hardness, corrosion resistance, and film flexibility. It has wide applicability and demonstrates outstanding adhesion to various substrates. Key features include:

1. Exceptional thermal stability and high-temperature anti-yellowing properties, making it widely suitable for various light-colored, high-temperature resistant coatings.
2. Outstanding flexibility and melt fluidity; it can be blended with PAI (Polyamide-imide) to formulate primer coats, enhancing the resistance to steam sterilization and boiling water of non-stick coatings.
3. Excellent chemical resistance. Coatings produced with this resin exhibit high resistance to saltwater, salt spray, acids, alkalis, and organic solvents.
4. Excellent compatibility and water dilutability. This resin is compatible with the vast majority of aqueous emulsions and resins and can be directly diluted with deionized water. It is suitable for direct use in formulating single-coat, water-based high-temperature coatings.
5. Complies with food safety and hygiene standards such as those of the U.S. FDA and Europe.

Application ✓ Water-based high temperature resistant non-stick coatings.
✓ High temperature resistant adhesives.

Product	Appearance:	Milk white to cream white liquid
Index	Viscosity:	2500-5000cps
	pH:	8.50-10.50
	Specific Gravity:	1.00-1.20
	Solid Content:	24.00%-26.00%
	Particle Size:	D90≤23μm
	Flash Point:	>75℃

Method of application It can be added directly after homogeneous dispersion, or grinded with pigments or fillers before use.

Storage Store at temperatures between -5°C to 40°C, protected from direct sunlight. Keep tightly sealed. Shelf life: 12 months (unopened).

NOTE: As a polymer dispersion, this resin may experience sedimentation during storage.
Ensure thorough mixing prior to use to eliminate any settled material.

Packaging 50kg/plastic drum; 200kg/plastic drum

Discharge Do not discharge it into the wastewater system, put it in a specific container for professional disposal.

Emergency treatment 1. In case of leakage or spillage, collect it in a container and clean the ground pollutants with a cloth.

2. If this product accidentally come into contact with the eyes, rinse immediately with plenty of water for at least 15 minutes. If discomfort persists, seek medical attention immediately.

3. If this product comes into contact with the skin, wash with water and soap. Seek medical attention immediately if discomfort occurs.

4. If discomfort occurs from accidental inhalation of spray, move to fresh air immediately and seek medical attention without delay