

Water-based epoxy resin dispersion

S-533

Overview:

S-533 is a general-purpose solid-state epoxy emulsion water dispersion product. It features excellent shear stability, quick drying, outstanding initial water resistance, and excellent salt spray resistance.

Characteristic:

- * Excellent shear stability ($\leq 45^{\circ}\text{C}$), suitable for grinding processes
- * Excellent early performance characteristics, such as early water resistance and heat resistance
- * Excellent salt spray resistance performance

Scope of Application:

- *Quick-drying primer system, providing rapid surface drying and full drying speed
- *Used in combination with universal water-soluble amine-cured agents, it is suitable for anti-corrosion primers, intermediate coatings, floor paints, etc.
- *Used in combination with water-dispersible amine-cured agents, it is suitable for primers, intermediate coatings or topcoats with requirements for drying speed or early hardness

Physical properties:

Detection indicators	Testing standards	Technical indicators
Appearance	Judging by appearance	White emulsion
Solid content (%)	ASTM D1259	52 ± 2
Viscosity (cP) (25°C, 20rpm spindle #5)	ASTM D2196	500 - 5000
Epoxy equivalent (g/mol, as supplied)	ASTM D1652	900 - 1100
Solvent (%)	Theoretical value	$\leq 5\%$

The above values are based on the physical properties measured in multiple laboratory tests and are not the shipping standards for the factory products.

The early performance is related to the selection of the curing agent, and there may

be differences depending on the type combination.

Recommendation for use:

* Add resin emulsion after grinding the water-based slurry to prepare the finished paint

* Partial or all of the resin emulsion and pigment and filler are rapidly dispersed or ground to the required fineness

* After adding the curing agent, stir for at least 5 - 10 minutes to ensure uniform dispersion

Storage and Packaging:

* The original barrel is sealed. It is recommended to store it in a dark place in a cool and dry area at a temperature range of 10 - 40°C.

* After opening the original packaging, avoid allowing the emulsion to come into prolonged contact with the air to prevent any deterioration of product quality.

* This product is not a hazardous chemical. It is transported in accordance with the regulations for environmentally friendly chemical non-hazardous products.

* From the manufacturing date, this product has a validity period of 9 months. If it has expired, please retest before use.

* Original barrel packaging: 200kg per barrel (chemical barrel), 1T per barrel (IBC ton barrel)