

Water-based epoxy resin dispersion

S-541

Overview:

S-541 is a universal water-based epoxy emulsion product. It features excellent shear stability, abrasion resistance, quick drying time, outstanding initial water resistance, and salt spray resistance.

Characteristics:

- * Excellent salt spray resistance
- * Excellent shear stability ($\leq 40^{\circ}\text{C}$), suitable for grinding processes
- * Excellent early performance establishment, such as early water resistance performance, etc.

Scope of Application:

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

Physical properties:

Detection indicators	Testing standards	Technical indicators
Appearance	Judging by appearance	White emulsion
Solid content (%)	ASTM D1259	53± 2
Viscosity (cP) (25°C, 20rpm spindle #5)	ASTM D2196	200-4000
Epoxy equivalent (g/mol, as supplied)	ASTM D1652	900 - 1150
Solvent (%)	Theoretical value	$\leq 2\%$

The above values are based on the physical properties measured in multiple laboratory tests and are not the shipping standards for the factory-produced 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 water grinding to prepare the finished paint
- * Partial or all of the resin emulsion and pigment/filler are rapidly dispersed or ground to the required fineness

After adding the curing agent, stir for at least 10 minutes or more to ensure uniform and stable 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)