

# Acrylic Emulsion Polymerization Technology

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## EH-826 Alkyd Modified Self-crosslinkable Acrylic Emulsion

### ■ Summary

EH-826 Alkyd Modified Self-crosslinkable Acrylic Emulsion is composed of acrylic, methacrylic and its lipid monomer, self-crosslinkable monomer, fluorine monomer, silicone monomer and alkyd resin, through core-shell polymerization process.

### ■ Physical and Chemical Indicators

Product	Project	Result
EH-826 Emulsion	Appearance	Milky white light blue viscous liquid
	PH	7.5~8.5
	Viscosity	400~1200 CPS
	Solid content	(48±1)%
	Freeze-thaw stability	-18℃ (Passed three times)
	Calcium ion stability	1:1 (Qualified)
	Mechanical stability	1800 r/min (30 minutes pass)
	Glass transition temperature	40℃
	Shelf life	6 months(5℃~25℃ storage)
Waterborne Paint [1]	Hardness (scratch resistance)	2H
	Impact resistance	Excellent
	Adhesion	Excellent
	Ultraviolet resistance	Excellent
	Water resistance	Excellent
	Chemical resistance	Excellent
	Gloss	>90 GU

**Remark [1]:** this kind of paint is made up of EH-826 emulsion and titanium dioxide, color paste and auxiliary agent. Different preparation schemes may have different properties of paint.

### ■ Performance and Application

EH-826 Alkyd Modified Self-crosslinkable Acrylic Emulsion combined with titanium dioxide, color paste and additives can be made into environmentally friendly non-toxic and durable waterborne paint, and the properties of metal paint are better.

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The product has good leveling property and good fullness, and it forms dense film after curing. The film has strong adhesion, excellent gloss, scratch resistance, impact resistance, acid and alkali resistance, water resistance, ultraviolet resistance and light retention. There are two properties of thermal crosslinking and self-crosslinkable, which are substitutes for oil paint and polyester paint.