

# Acrylic Emulsion Polymerization Technology

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## EH-829 Epoxy Modified Self-crosslinkable Acrylic Emulsion

### ■ Summary

EH-829 Epoxy Modified Self-crosslinkable Acrylic Emulsion is composed of acrylic acid, methacrylic acid and its lipid monomer, self-crosslinkable monomer, fluorine monomer, silicone monomer and epoxy resin by core shell polymerization process.

### ■ Physical and Chemical Indicators

Product	Project	Result
EH-829 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	55℃
	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-829 emulsion and titanium dioxide, color paste and auxiliary agent. Different preparation schemes may have different properties of paint.

### ■ Performance and Application

EH-829 Epoxy Modified Self-crosslinkable Acrylic Emulsion combined with titanium dioxide, color paste and additives can be used as environmentally friendly, non-

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toxic and durable waterborne paint. It belongs to constant temperature curing metal paint emulsion.

The paint mold has high hardness, strong adhesion, and has excellent gloss, water resistance, impact resistance, salt fog resistance, acid and alkali resistance and ultraviolet resistance, light retention and other characteristics. There are two properties of thermal crosslinking and self-crosslinkable, which are substitutes for oil paint and polyester paint.