

# Acrylic Emulsion Polymerization Technology

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## EC-520 Modified Pure Acrylic Emulsion

### ■ Summary

EC-520 Modified Pure Acrylic Emulsion is composed of acrylic ester, methacrylate, functional monomer and organosilicon, which belongs to modified anionic acrylic emulsion.

### ■ Physical and Chemical Indicators

Product	Project	Result
EC-520 Emulsion	Appearance	Milky white light blue viscous liquid
	PH	7.5~8.5
	Viscosity	200~1800 CPS
	Solid content	(50±2)%
	Freeze-thaw stability	-18℃ (Passed three times)
	Mechanical stability	1800 r/min (30 minutes pass)
	Calcium ion stability	1:1 (Qualified)
	Glass transition temperature	20℃ (adjustable)
	Shelf life	6 months(5℃~25℃ storage)
Waterborne Paint <sup>[1]</sup>	Hardness (scratch resistance)	H
	Impact resistance	Excellent
	Ultraviolet resistance	Excellent
	Chemical resistance	Excellent
	Gloss	>90 GU

**Remark [1]:** this kind of paint is made up of EC-520 emulsion and titanium dioxide, color paste and auxiliary agent. Different preparation schemes may have different properties of paint.

### ■ Performance and Application

The product has excellent calcium ion stability, freeze-thaw resistance, aging resistance and water resistance. Taking water as the medium of pigments, fillers and additives, can be made of high profile wall benzene free green latex paint, cement tile paint.