

Acrylic Emulsion Polymerization Technology

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EM-101 Cross-linked Emulsion for Metal Paint

■ Summary

EM-101 metal paint emulsion (cross-linked type) is made up of acrylic, methacrylic and its lipid monomer and self cross-linked monomer, and is polymerized by advanced technology.

■ Physical and Chemical Indicators

Product	Project	Result
EM-101 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)
	Glass transition temperature	45℃
	Shelf life	6 months(5℃~25℃ storage)
Waterborne Paint [1]	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 EM-101 emulsion and titanium dioxide, color paste and auxiliary agent. Different preparation schemes may have different properties of paint.

■ Performance and Application

EM-101 cross-linked type metal paint emulsion, combined with titanium dioxide, color paste and additives, can be used as environmentally friendly non-toxic and durable metal paint. The water-based paint has excellent gloss, scratch resistance, impact resistance, acid and alkali resistance and UV resistance characteristics, with thermal cross-linked and self cross-linked performance. It is an alternative to oil paint and polyester paint.