

ACRYLIC EMULSION – 3A[®]

INTRODUCTION

Acrylic Emulsion – 3A is a fine particle size, acrylic copolymer emulsion. Its moderate film hardness allows binder plasticity to with stand high pigment loads. It's also exhibits superior alkali water and weathering Resistance.

APPLICATION

Acrylic Emulsion – 3A has been developed specifically as a binder for coatings where high binding power, adhesion and film toughness is required.

Coating using Acrylic Emulsion – 3A as a binder exhibits low thickener demand and excellent wet- scrub at high pigment volume concentration.

TECHNICAL INFORMATION

TYPE	:	Acrylic styrene copolymer
Total Solids	:	46% \pm 2%
PH Value	:	7.5 – 9.0
Viscosity	:	65-80 poise (RION VT-04)
Particle Size	:	0.09 – 0.12 microns
Specific gravity	:	Approx. 1.04 at 25 °C
Storage life	:	Maximum 6 month under sealed cover Drum from date of delivery.
M.F.F.T	:	Approx. 20 °C

(Continue)

FORMULATION GUIDELINES

PIGMENT

Acrylic Emulsion – 3A can be formulated to withstand high pigments and extender loads. It associates with clay so much so that one can use less amount of clay to achieve similar performance characteristics.

FILM COALESCING AIDS

Coalescing aid is required for optimum film formulation under air- dry applications. The amount will depend on the formulation and drying conditions. Texanol at 5-10% by weight on total dry resin is recommended for adequate filming.

THICKENERS

Acrylic Emulsion – 3A is designed to give low thickener demand. Although may be used to increase the viscosity of coating based on Acrylic Emulsion - FB, it is important to note that the amount of thickeners required are lower than when the same thickener is used in conventional acrylic binders.

HIGH PVC PAINTS

Acrylic Emulsion – 3A can be formulated to give good wet scrub at high pigment and extender loads using the attached starting formulation.