



Revised 4/10/2009

## Technical data sheet – specification

PRODUCT NAME : AC-700

### Chemical Nature :

Aqueous anionic dispersion of copolymer of acrylate.

### Physical form :

Milky White Liquid

### Storage :

Acrylic polymer AC-700 has a shelf life of 12 months. The air in the headspace of bulk storage tanks must be kept saturated with water vapor at all times

### Charateristics :

AC-700 is an alkaline-swelling acrylic copolymer emulsion.

It can provide the paper coating industry with a convenient replacement for CMC or starch.

Its high water retention property makes it useful for addition to high-solids coating formulations containing latex as the principal binder. It can be added directly to the coating colors at the last stage and thickening is accomplished by basic condition like ammonia water (pH : 8-9.5).

### Applications :

- Art Paper (Gloss paper)
- LWC (light weight coated paper)
- Board Paper

### Properties

- Excellent Water Retention
- Good Rheological Properties
- Good Printability

Head office : **EN-TECH POLYMER CO.,LTD.**

Rm209, Jeil Plaza, Imae Dong 131-1, Bundang Ku, Seong nam City, Kyunggi Do, 463-806, South Korea

Tel : 82-31-7067452 Fax : 82-31-7067453 <http://www.opaquepolymer.co.kr> email : [tompd@opaquepolymer.co.kr](mailto:tompd@opaquepolymer.co.kr) , [ntech@ntechpolymer.com](mailto:ntech@ntechpolymer.com)

En-Tech Polymer seeks to present reliable information concerning the composition, properties and use of Its products and services, however;(1)All advice concerning selection and use of any products or services is provided AT NO CHARGE AND WITH NO WARRANTY, (2)No warranty is made here by; products and services described herein are warranted to conform to En-Tech Polymer's specifications only at the time of sale. All sales are subject to En-Tech Polymer's Standard Terms and Conditions of Sale, which are reproduced on the reverse side of each invoice. All WARRANTIES OF MERCHANTABILITY AND FITNESS OF PURPOSE ARE DISCLAIMED, remedy for any breach of warranty and responsibility for any patent liability are limited as provided in En-Tech Polymer's Standard Terms and Conditions of Sale, and En-Tech Polymer is not liable for consequential, incidental or special damages. Nothing in the listed information shall be construed as an inducement or recommendation to use any process or to produce or use any product or service in conflict with existing or future patents

## Technical Specification

	SPECIFICATION	Unit	Low limit	Upper limit
1	Non-volatile fraction(at150°C/1hr)	%	29.0	31.0
2	pH(at 25°C)		2.0	4.0
3	Viscosity(Rvt#2, 50rpm)	Cps	0	100
4	Specific Gravity(at 25°C)	g/cm	1.01	1.08
5	Average Particle size	nm	100	150
6	Ionic charge		Anionic	
7	Application		Thickener for paper coating	

### Cautions :

- Shows thickening effect in alkaline condition (pH : 8 –11 )
- Shows thickening effect in SB-Latex or acrylic resin systems
- For exact adjusting the viscosity or for preventing of shocking, AC-700 may be diluted with water(1/1 – 1/3) before adding.

Head office : **EN-TECH POLYMER CO.,LTD.**

Rm209, Jeil Plaza, Imae Dong 131-1, Bundang Ku, Seong nam City, Kyunggi Do, 463-806, South Korea

Tel : 82-31-7067452 Fax : 82-31-7067453 <http://www.opaquepolymer.co.kr> email : [tompd@opaquepolymer.co.kr](mailto:tompd@opaquepolymer.co.kr) , [ntech@ntechpolymer.com](mailto:ntech@ntechpolymer.com)

En-Tech Polymer seeks to present reliable information concerning the composition, properties and use of Its products and services, however;(1)All advice concerning selection and use of any products or services is provided AT NO CHARGE AND WITH NO WARRANTY, (2)No warranty is made here by; products and services described herein are warranted to conform to En-Tech Polymer's specifications only at the time of sale. All sales are subject to En-Tech Polymer's Standard Terms and Conditions of Sale, which are reproduced on the reverse side of each invoice. All WARRANTIES OF MERCHANTABILITY AND FITNESS OF PURPOSE ARE DISCLAIMED, remedy for any breach of warranty and responsibility for any patent liability are limited as provided in En-Tech Polymer's Standard Terms and Conditions of Sale, and En-Tech Polymer is not liable for consequential, incidental or special damages. Nothing in the listed information shall be construed as an inducement or recommendation to use any process or to produce or use any product or service in conflict with existing or future patents