WE MAKE THE PALETTE FOR PAPER









Government Recognized Export House | Formerly Bhavi International Limited





209, Mewad Building, Patanwala Ind. Complex, L.B.S. Marg, opp. Shreyas Cinema, Ghatkopar (W), Mumbai-400086, India

Tel: 91-22-25000429 / 55969600 | Fax: 91-22-25005008

Email: shylaja@bhaviindia.com | Website: www.bhaviindia.com

PRODUCT NAME : AC-800

Chemical Nature :

Aqueous anionic dispersion of copolymer of acrylate.

Physical form :

Milky White Liquid

Storage :

Acrylic polymer AC-800 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-800 is an high effective alkaline-swellable 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

PropertiesExcelle

- Excellent Water Retention
 Good Rheological Properties
- Good Printability

Technical Specification

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

Unit

Low limit

Upper limit

10 rpm 20 rpm 50 rpm shear thinning factor

Comparison of rheological properties of different modifiers are as follows.

SPECIFICATION

	Sterocol FD	9400	7300	5080	69.6 %
	Lamberti L30	10000	7200	4880	67.8 %
	JT-35B	1700	1600	1410	88.1 %
	AC-700	4100	3650	3160	86.6 %
	AC-800	8000	7400	6760	91.4 %
The state of the s	ed by Brookfield viscometer vor is the ratio of viscosity at 5				r 140 / ammonia 5). mber means the coating color has

Newtonian like properties.

The method to check the water retention usually executed in static method (very low shear rate region).

In low shear rate region, Sterocol FD or Lamberti L30 has higher viscosity (Higher water retention value will be present).

But the recent paper coating process (mostly blade coating) has a shear rate range over 10⁶ s⁻¹

(Much higher shear rate region than Brookfield viscometer), and in that region our AC-800 is more

effective to enhance the viscosity. In real situation on the coating process, it is important to maintain high viscosity just after coating on base paper to prevent migration of binder particles into the base paper, which is the main cause of the print mottling..