

TECHNICAL DATASHEET

DEMPOL ACP 50

PURE ACRYLIC BINDER

DEMPOL ACP 50 IS AN AQUEOUS, FINE DISPERSION OF AN ACRYLIC/ACRYLIC
ESTER COPOLYMER EMULSION.

EMULSION PROPERTIES

Type of Polymer	: Acrylic/Acrylic Acid Ester Copolymer
Solid Content (%)	: 50 ±1
pH (at 25°C)	: 6 – 8
Particle Size (micron)	: 0.2 - 0.5
Viscosity (Brookfield DV-II +) (at 25 °C)	: 1000-2000 mPa.s (spindle:2/20 rpm)
Stabilizing System	: Anionic-Nonionic
Free Monomer Content (%)	: < 0.3
Density (at 20°C)	: 1.02 -1.05 (gr/ml)
Minimum Film Forming Temperature (°C)	: 1°C ± 1
Film Appearance (at 25°C)	: Clear,flexible,gloss
Glass Transition Temperature (°C)	: +3.63

APPLICATIONS

- High quality Interior & Exterior Paints
- Plasters
- Silk paints , Semi-Gloss Paints

FEATURES

- Good water resistance and scrub resistance
- Good paint stability
- Clear , glossy and flexible film.
- High pigment binding capacity

PROCESSING

DEMPOL ACP 50 exhibits very good compatibility with pigments and fillers and has a high pigment binding capacity.

Paints are produced in the conventional method in a high-speed impeller mill. It's recommended that the pigments and extenders are thoroughly dispersed by wetting agents (e.g. DEMPOL 0930) and dispersing agents (e.g. DEMPOL PA 40 NS) before the emulsion is added.

DEMPOL ACP 50 has a tendency to foam as all small particle dispersions. It is essential to add defoamer during the process of producing emulsion paints and similar applications.

To arrange the viscosity and processing properties of emulsion paints, plasters etc. various types of thickeners can be added. Like cellulose ethers, acrylic thickeners.(e.g. DEMPOL SA 65) and polyurethane thickeners.

DEMPOL ACP 50 exhibits good film formation at temperatures above 1°C. It is necessary to add suitable coalescing agents (e.g. Texanol or Buthyl Diglycol Acetate) in amounts of 0.2 – 0.4 % in terms of the whole formulation.

Glycols improve the freeze-thaw stability and glossy of the finished products but do not cause any reduction of the film forming temperature.

Eventhough DEMPOL ACP 50 is protected from microorganisms. It is required to add antibacterial agents to the finished products to ensure good storage stability.

SAFETY

- PERSONAL PROTECTION** : Wear suitable protective clothing , gloves and glasses for eye / face protection.
- SKIN CONTACT** : Wash skin as soon as possible with plenty of water.
- EYE CONTACT** : Flush immediately with plenty of water , keeping eyelids open , for at least 15 minutes. Remove contact lenses. Seek for medical assistance.

HANDLING & STORAGE

- HANDLING** : Ventilate the working place thoroughly. Avoid contact with skin, eyes and clothes. No eating and drinking in the work place.
- STORAGE** : Stable for 12 months , in close drums at ambient temperature (+5 / +40°C) avoid freezing temperatures and sources of heat and direct sunlight.

NOTE

The above information is based on our knowledge and experience. In view of many factors that may affect processing and application, these data do not relieve end-users from the responsibility of carrying out their own tests and experiments.

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