

TECHNICAL LEAFLET

DEMPOL PVA 855

BINDER FOR INTERIOR PAINT

DEMPOL PVA 855 IS AN AQUEOUS EMULSION, HAVING A SOLID CONTENT 50%. IT IS USED IN THE PRODUCTION OF INTERIOR PAINT.

IT EXHIBITS SUPERIOR COST/PERFORMANCE BENEFITS AND DURABILITY, HAVING GOOD RESISTANCE TO MECHANICAL PROCESSES, SUCH AS PUMPING AND MIXING.

EMULSION PROPERTIES

Type of Polymer	: Polyvinyl Acetate Homopolymer
Solid Content (%)	: 50 ± 1
pH (at 25°C)	: 3.5 – 5
Particle Size (micron)	: 0.4 – 0.7
Viscosity (Brookfield DV II +) (at 25°C)	: 15000 - 20000 mPa.s (spindle:6/10 rpm)
Stabilizing System	: Anionic-Nonionic-Polyvinyl Alcohol
Free Monomer Content (%)	: < 0.3
Density (at 20°C)	: 1.05 - 1.1 (gr/ml)
Minimum Film Forming Temperature (°C)	: + 3 / + 4
Film Appearance (at 25°C)	: Clear,flexible
Glass Transition Temperature (°C)	: +29

APPLICATIONS

- Ceiling Paints
- Interior Paints

FEATURES

- Having good resistance to mechanical process such as pumping and mixing.
- Good paint stability
- Clear and flexible film.
- Superior cost / Performance benefits and durability.

PROCESSING

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 PVA 855 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 various types of thickeners can be added. Like cellulose ethers.

It is necessary to add suitable coalescing agents (e.g. Texanol or Buthyl Diglycol Acetate) in amounts of 0.2 – 0.6 % in terms of the whole formulation.

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

Eventhough DEMPOL PVA 855 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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