POLYBINDER MTB

Universal acrylate-based binder for pigment printing

Properties : - is compatible with anionic and nonionic products.

- is a self-crosslinking acrylic copolymer emulsion with excellent thermo-mechanical Stability which provides better running properties with less resin build-up on processing equipment.
- can be used for all kind of printing methods included roller, screen and rotary printings.
- makes a soft durable film with excellent mechanical stability.
- gives an excellent washing and rubbing fastness.
- is an APEO free, self-crosslinking polymer emulsion which doesn't require the addition of a crosslinking agent.

Field of application

Substrate : all textile fibers especially cellulosic and its blends

Aggregate : roller, screen and rotary printing machines

Operation : pigment printing

Type of product : acrylic copolymer emulsion

Ionic nature : anionic

Appearance : milky white liquid

pH of 1% sol. : 3.0 – 5.0

Solid content : about 40%

Application

Guide recipes **:** as a point of reference , it is recommended as follows :

Water	**: X gr**
Polyfoam SIL Conc.	**: 0.5-1.5 gr**
Polybinder MTB	**: 60-150 gr**
Catalyst (if necessary)	**: 5.0-10.0 gr**
Polyprint PTF Conc.	**: 1.0-1.2 gr**
Polygator RC Conc. (if necessary)	**: 0.2-0.5 gr**
Any other additives(if necessary)	**: Y gr**
White spirit (if necessary)	**: Z gr**
Pigment dyestuffs	**: W gr**

Ready-to-use printing paste	**: 1000 gr**

Catalyst is used only if necessary in case of low fixing temperature conditions. Oxalic acid and Ammonium hydrogen phosphate are the best choices.

The print pastes should have a pH of at least 7.5-8.0; because lower pH values often result in pastes prepared with synthetic having unsatisfactory flow properties. In general, print pastes produced with solvent-free formulation should be adjusted to a higher viscosity than those produced with white spirit emulsions.
After drying the prints, the fixation will be continued by heating for **4-5 minutes at 150 °C** or **3-2 minutes at 160-170 °C** and as a result, optimum fastness properties will be earned.

Storage stability **:** 12 months in original packing or in clean covered; also the products must be protected from freezing. Exposures to extremes of heat and cold should be avoided.