



## HEMACRYL – X-440

### INTRODUCTION :

Hemacryl –X-440 is a self cross linking Acrylic Emulsion which has soft, durable film properties with excellent thermal and mechanical stability. These properties make Hemacryl -X-440 suitable for textile printing like pigment printing, khadi printing etc.

### Technical Information :

Composition : Aqueous Dispersion of thermally cross-linkable Acrylate co-polymer  
Solid content :  $38 \pm 1\%$   
Nature : Anionic  
Ph (as packed) : 8-9

### APPLICATION :

Hemacryl –X-440 can be used for preparing White Ink Khadi, Pearl Paste etc.

### TYPICAL RECEIPE :

#### WHITE INK (KHADI) :

30 Parts Titanium Dioxide (pre-soaked with water 30 kg TiO<sub>2</sub>/20 kg water)  
50 Parts Hemacryl-X-440

The above mixture is mixed well in high speed stirrer; Defo amer (0.5%) should be added to avoid foaming during stirring. Slowly add Liquor Ammonia (25%) to adjust pH 8-8.5, which will also increase the viscosity of the paste.

If higher viscosity is required, Thickening Agent (Hemacol-TH) can be added.



Typical recipe for pigment printing :

10-15 parts Hemacryl-X-440

0-10 parts M.T.O.

70-75 parts Water

Adjust the above mixture's pH to 8 -8.5, and then add acrylic thickner like Alco print 160 to adjust the viscosity.

The percentage of the binder used depends upon the percentage of the pigment emulsion to be added before printing.

Addition of Fixer 2% is required to achieve better rubbing fastness.

**SHELF LIFE :**

Hemacryl-X-440 is not subject to a particular limitation of its shelf life, as ink contains water, it must be protected from fungus. We recommend closing opened cans very thoroughly.

**NOTE :** The information given in this technical bulletin is based on data believed to be reliable and is given in good faith. We do not guarantee the results to be obtained nor we assure any liability in this respect.