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TECHNICAL DATA SHEET

INDOFIL TR 400N SOFT ACRYLIC BINDER

INDOFIL TR 400N is a self-cross linking Acrylic co-polymer emulsion with soft, durable film properties. It has excellent thermal & mechanical properties which gives superior running properties.

INDOFIL TR 400N is easily miscible with cold water. It can be used for Khadi and pigment printing of cotton, viscose and synthetic material and gives soft and durable film properties. The print obtained using INDOFIL TR 400N possesses very good all round fastness and excellent colour value.

TYPICAL PROPERTIES :

| | | | |
|---------------------------------------|---|--|---|
| Appearance | : | milky white thick emulsion with blue tinge | |
| Emulsifying system | : | Anionic | |
| pH (1: 1 aqueous solution) | : | 8 +/-1 | |
| Viscosity @25 ^o C (4/30) | : | 2000 – 10000 cps | : |

CATALYST :

Since INDOFIL TR 400N is a self cross linking acrylic emulsion, catalyst is not necessary to achieve film durability where curing conditions are optimum(3 minutes at 150^o C) But where curing conditions are less than optimum an acid or latent acid catalyst is recommended. The use of catalysts like Di-ammonium phosphate is recommended.

APPLICATION :

1.KHADI PRINTING

Suggested Khadi printing recipe using INDOFIL TR 400N is outlined below. This recipe gives good rub and wash fastness.

| | | |
|------------------|---|----------|
| INDOFIL TR 400N | : | 45 parts |
| Titanium Dioxide | : | 30 parts |

Mix and keep for soaking overnight. Then add

| | | |
|------------------|---|-------------------------------------|
| Kerosene | : | 18 parts |
| Glycerine | : | 02 parts |
| Urea | : | 03 parts |
| Liquor Ammonia | : | 01 parts (To adjust pH 8 – 9) |
| INDOFIL FIXER PF | : | 03 parts (At the time of printing) |

For smoothness and good run ability , glycerine or coconut oil may be added in small quantity.

Addition of 3-4 % Rangolite C or Safolin DS is to be done for discharge Khadi.

2. PIGMENT PRINTING :-

A) Reduction Binder Thickening :

| | | |
|----------------------|---|----------|
| INDOFIL TR 400N | : | 10 Parts |
| WATER | : | 12 Parts |
| KEROSENE/M.T.O. | : | 76 Parts |
| EMULSIFIER(Nonionic) | : | 02 parts |

B) Pigment printing on Polyester/Cotton/Blends :-

1. With Reduction Binder Thickening paste :-

| | | |
|-----------------------------|---|----------------|
| Reduction binder Thickening | : | Balance |
| Pigment emulsion | : | X parts |
| INDOFIL FIXER LF/PF | : | 02 parts |
| Liquor Ammonia | : | 0.5 – 1.0 part |

3. WITH AQUEOUS SYNTHETIC THICKENER :

| | | |
|-----------------|---|-----------|
| INDOFIL TR 400N | : | 10 parts |
| INDOFIL KST | : | 1.4 -1.6% |
| WATER | : | X parts |
| Total | : | 100 parts |

Neutralised to pH 8.5 to 9 with liquor ammonia.

| | | |
|---------------------|---|----------|
| INDOFIL FIXER LF/PF | : | 02 parts |
|---------------------|---|----------|

Fixer is added just before printing.

Binder dosages will depend on the % shade of pigment.

Note : The neutralization should be done only after the addition of catalyst. Little excess of Liquor Ammonia would not in any way harm the print paste. Print paste should be filtered well before it is taken for printing.

STORAGE

INDOFIL TR 400N should be stored in a cool dry place having its container closed tightly . Once the seal of the drum is opened , the quantity must be used immediately .

SHELF LIFE

If stored in the recommended condition , product has a shelf life of one year from the date of manufacturing .

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