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TECHNICAL DATA SHEET

INDOFIL KST Synthetic thickener for printing and coating

High performance GOTS approved synthetic thickener for aqueous pigment printing Systems.

- A Direct **Replacement** For Kerosene Based Emulsion & hence **eco friendly** .
- Rapid Dispersibility and forms smooth paste.
- Economical
- As flowable paste, easy to handle.
- No water and Air pollution,
- Gives an **Excellent Colour Yield and Fastness**.

Advantages over Kerosene Printing System is :-

- No need of Emulsifiers.
- No need of any Catalyst.
- No kerosene smell.

INDOFIL KST is developed for use as a 100 % kerosene substitute for Pigment printing.

Typical properties :-

Acrylic polymers
Yellowish, easily pourable dispersion.
Anionic

Application :-

INDOFIL KST is supplied as a pourable dispersion which is very easy to handle. A typical print paste recipe is as follows :

X %	water
Y %	pigment Binder INDOFIL TR 42/4302/400/ ESVS/ESVS PLUS
1.3 – 1.6 %	INDOFIL KST
1-2 %	INDOFIL FIXER FF / PF/LF

Liquor Ammonia to adjust pH around 9.
Plus any other auxiliaries required.

There are two methods of Paste Preparation :-

1) **Direct addition :**

The required quantity of water, Binder and auxiliary chemicals, are first mixed together and then INDOFIL KST is added with stirring until the required viscosity is obtained. And stirring should be continued for a further 5 – 10 mins. The quantity of INDOFIL KST will be depending upon the type of binder, the pigment and water hardness. Average dosages to get required print viscosity are nearly 1.3 to 1.6 %.

2. **Stock System :**

The ammonia is added to the water followed by pigment binder and other auxiliaries. INDOFIL KST is then added with efficient stirring and this is continued for a 5 – 10 minutes to develop the full viscosity. The pigment may then be added as required.

The final addition of pigments, can cause a fall in viscosity. In such cases, if considered necessary, add small quantities of INDOFIL KST to restore the viscosity. A care must be taken to ensure that the emulsion remains alkaline during standing otherwise premature crosslinking can occur.

3. **Drying and Curing :**

Drying to be done after printing at 120⁰ C followed by curing at 150⁰ C for 4 minutes

Packing Information

This product is available in 60 kg curbouy .

Storage recommendation

Keep the product in cool and dry place . Opened package should be sealed properly after use .

Shelf Life :

If kept in original packed condition under shade , the product is stable upto 12 months . The product should be kept away from heat and sun light . If the original seal is opened , the quantity must be consumed immediately .

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