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## TECHNICAL DATA SHEET

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### INDOFIL KST PLUS

Synthetic thickener for printing and coating

High performance synthetic thickener for aqueous pigment printing Systems.

- Gives excellent thickening with uniform and transparent paste having **eco friendly ingredient**.
- 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 PLUS** is developed for use as a 100 % kerosene substitute for Pigment printing.

#### **Typical properties :-**

Acrylic polymers

Yellowish, easily pourable dispersion.

Anionic

#### **Application :-**

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

X %                      water

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**TDS/TEXTILE/Feb 2013/Rev. 0**

Y %	pigment Binder INDOFIL TR 42/4302/400/ ESVS/ESVS PLUS
2.2 – 2.6 %	INDOFIL KST PLUS
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 PLUS 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 PLUS will be depending upon the type of binder, the pigment and water hardness. Average dosages to get required print viscosity are nearly 2.2 to 2.6 %.

**2. Stock System :**

The ammonia is added to the water followed by pigment binder and other auxiliaries. INDOFIL KST PLUS 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 PLUS 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 120<sup>0</sup> C followed by curing at 150<sup>0</sup> 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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