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## **TECHNICAL DATA SHEET**

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### **INDOFIL HA 30** **Eco-Friendly Hard Binder**

**INDOFIL HA 30** is a co-polymer emulsion which is used in variety of textile application. It can be blended with soft binders like INDOFIL HA 8 I, INDOFIL K 87 and other emulsions to achieve any property desired.

**INDOFIL HA 30** is characterized by its ease of formulation, resistance to discoloration on exposure to ultraviolet light and ageing, excellent pigment bonding properties and durability to washing and dry cleaning.

#### **APPLICATIONS**

**INDOFIL HA 30** is recommended for use in

- ✓ Fabric finishing for Orgando type finish
- ✓ Spray bonding
- ✓ Fiberfill and other non-woven fabrics, back coating, adhesive for lamination, abrasives, flocking and paper coating.
- ✓ This product is also used in Interlinings and blinds preparation.

#### **Technical Specification (Physical Properties)**

Appearance	: Milky white viscous emulsion
Solid Content	: 45%
pH when packed	: 7 +/- 1
Viscosity (Brookfield RVT#2/20 @25°C)	: Max. 500 Cps
Tg	: + 30

#### **Film Properties**

- Excellent resistance to UV, alkali, salt water
- Excellent pigment binding
- Moderate flexibility
- Good resistance to aging

- Hydrophobicity
- Good surface dryness

### **Thermo-Setting Resins**

Harder resins like Melamine formaldehyde resins, ie INDOFIL FIXER LF/PF/SVF can be used along with INDOFIL HA 30 to increase the wash resistance and it should be used a concentration of 1 – 2 % on the total adhesive. However care should be taken to adjust pH of the coating paste to 8 to 8.5 with liquor ammonia or TEA.

### **THICKENING**

**INDOFIL HA 30** is flowable viscous liquid and be thicken further by addition of Rehology modifier like INDOFIL ASE 60 TL after making pH of the solution up to 8 to 8.5.

### **APPLICATIONS:**

#### **Fabric Finishing:-**

**INDOFIL HA 30** can be used along with Starch or thermosetting resins to improve the pilling resistance to achieve dimensional stability of the fabric and increase in tear strength of the fabric. This is used for Permanent press finishing on polyester/cotton/viscose blends. The usages level is from 20 – 40 gm/lit in the formulation.

#### **Non-Woven Application:-**

There are various methods to get the non-woven fabrics using **INDOFIL HA 30**. It is suitable for bonding non-woven alone or in continuation with mechanical methods.

Suggested recipe is as follows for **Saturation bonding of Non-woven fabrics**

<b>INDOFIL HA 30</b>	=>	35 Parts
Wetting Agent (10%)	=>	06 Parts
Water	=>	59 Parts
Total	=>	100 Parts

The web is passed through this solution on a screen and then dried and cured in the usual manner in the usual temperature.

The given recipes can be a guideline formulation and processors may make adjustments to achieve appropriate cost / performance balance.

**THE INFORMATION GIVEN ABOVE IS TO THE BEST OF OUR KNOWLEDGE, EXPERIENCE. HOWEVER WITHOUT ANY WARRANTY.**

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