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## TECHNICAL DATA SHEET

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### INDOFIL HA 20 ( HARD BINDER )

INDOFIL HA 20 is acrylate based polymer emulsion which is used in variety of textile application. It can be blended with soft binders like INDOFIL HA 8( I ), INFIGO SOFT ESB , INDOFIL K 87 and other emulsions to achieve any property desired.

INDOFIL HA 20 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 20 is recommended for use in Fabric finishing , pigment printing , 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                                 | : 50%                          |
| pH when packed                                | : 7-9                          |
| Viscosity (Brookfield RVT#2/20 @25°C)         | : 1000-5000                    |
| Film Test (draw down 250 micron ambient temp) | : Clear with negligible bits   |
| Charge  | : Anionic                      |

#### 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 20 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 20 is flow able viscose paste and be thicken further by addition of rheology modifier like INDOFIL ASE 60 TL after making pH of the solution up to 8 to 8.5.

### **APPLICATIONS:**

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

INDOFIL HA 20 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 20. 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**

|                     |    |           |
|---------------------|----|-----------|
| INDOFIL HA 20       | => | 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.

### **Packing Information**

This product is available in 220 kg and 230 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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