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TECHNICAL DATA SHEET

INDOFIL K-87

(VERY SOFT ACRYLIC BINDER FOR FLOCK/ NONWOVEN/TECHNICAL TEXTILE)

INDOFIL K 87 is a self-crosslinking Acrylic polymer emulsion in primary form which combines softness and resiliency with durability to washing and dry-cleaning. Cured films of INDOFIL K 87 exhibits superior ultraviolet light resistance. To achieve durability from INDOFIL K 87, catalysts are not added. Due to its various properties, it makes itself ideal for various applications like back-coatings, flocking, fabric finishing and lamination.

TYPICAL PROPERTIES :

Appearance	:	Milky white emulsion
Emulsifying system	:	Anionic
pH (as packed)	:	2.0 to 4.0

CATALYST :

Since INDOFIL K 87 is a self cross linking acrylic emulsion, Catalyst is not necessary to achieve film durability where curing conditions are optimum(3 minutes at 150 Deg.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.

NOTE :

When an alkali-soluble emulsion such as INDOFIL ASE 60 TL is used as a thickener, di-ammonium phosphate(DAP) neutralizes the emulsion, thus raising the viscosity and DAP serves as a latent acid catalyst to crosslink the polymer. The DAP should be added to the emulsion very slowly from a 25 % aqueous dilution preferably in several additions rather than one.

THICKENINGS :

INDOFIL K 87 is supplied as a low viscosity emulsion and requires thickening for its application. Soluble thickening agents like Carboxy methyl cellulose can be used. However INDOFIL ASE 60 TL is ideal. INDOFIL ASE 60 TL emulsion should be diluted with equal parts of water before adding to INDOFIL K 87 and finally neutralized to pH 8. This pH should not exceed while using catalyst as light discoloration may occur.

APPLICATION :**FLOCKING :-**

For flocking, a good adhesive with soft hand and durability to washing and dry cleaning is required .INDOFIL K 87 is ideally suitable for such usages. A typical formulation consist of

INDOFIL K 87	:	92 Parts
INDOFIL ASE 60TL	:	02 Parts
Urea	:	01 Part
Glycerin	:	01 Part
INDOFIL FIXER SVF	:	04 Parts

Liq. Ammonia or TEA is added to ensure pH up to 8. Quantities of INDOFIL ASE 60TL can vary as per desired viscosity.

COAT – FLOCK – DRY – CURED AT 160⁰ C/3 Mins.

DRYING & CURING :

Prints are dried at 80⁰ C – 90⁰ C & cured at 150⁰ C for 3 – 5 mins or alternatively by steaming at 170⁰ C for 7 mins. In a loop ager

NON-WOVEN BONDING :

INDOFIL K 87 is designed for non-woven bonding where high degree of softness, flexibility and resiliency is required. It has an excellent adhesion to natural and synthetic fibres and blends of them. INDOFIL K 87 can be used by all the conventional methods of non-woven bonding. A typical formulation as under :

INDOFIL K 87	:	30 Parts
Nonionic Emulsifier	:	02 Parts
DAP (25%)	:	04 Parts
WATER	:	64 Parts

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

PACKING INFORMATION

This product is available in 50 kg and 245 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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