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TECHNICAL DATA SHEET

INDOFIL HA 500

Thermoplastic water borne acrylate dispersion for textile coating

INDOFIL HA 500 is thermoplastic acrylic dispersion used in applications where an extremely firm, resilient, durable binder is needed such as in hospital and medical applications, battery gauntlets, interlinings, household furnishings, and high loft webs. It can be blended with softer binders to provide an intermediate hand while maintaining good strength and durability. It has high resistance to acids and electrolytes.

This aqueous, all-acrylic emulsion also has excellent resistance to yellowing at high temperatures. Its outstanding mechanical stability improves sprayability and ensures even resin distribution and penetration.

TYPICAL PROPERTIES

Appearance	: Milky white emulsion
Solid content	: 50 ± 1
pH (as packed)	: 8.5 – 9.5
Ionic Nature	: Anionic
Viscosity @25 ⁰ C, cps on Brookfield	: 300 max (3/60)
Miscibility with water	: miscible in all proportions

COMPATIBILITY

INDOFIL HA 500 has very good compatibility with

- Most anionic and non ionic polymer dispersions in Indofil product range, e.g. coating as well as printing range
- Cross linking agents like melamine based , free formaldehyde and PU based formulations
- Indoprint pigment preparations
- Thickening agents INDOFIL KST and INDOFIL KST PLUS
- Fillers such as kaolin, dolomite , china clay etc

PROPERTIES OF THE FILM

Glass transition temperature Tg	: + 57 ⁰ C
Appearance	: Slightly Turbid
Surface	: Hard, stiff, tough
Handle	: Tack free

CROSSLINKING

The film of INDOFIL HA 500 formed when the water evaporates is already partly crosslinked. The condensation reaction is optimized by subsequent heat treatment or the addition of i.e. Indofil Fixer LF. In practice a temperature of 120–160 °C has been found to give good results. Because of the many types of substrate and different types of fixing equipment in use it is strongly recommended that preliminary tests to determine the optimum fixing temperature and duration in each case are carried out.

APPLICATION AREAS and EFFECTS

For the coating and laminating of woven, knitted and non-woven fabrics of all types and there blends. For tack-free, transparent or pigmented coatings with a warm, dry and hard handle and good firmness. Also for the stiffening of non woven textiles where a hard handle and good strength is required. Mixing component for improving film hardness and rigidity.

FEATURES

In summary, the features of INDOFIL HA 500 are:

- High tensile strength
- Resiliency
- Outstanding mechanical stability
- Firm hand
- Excellent resistance to yellowing

PRECAUTIONS

While developing coating formulations with INFIGO HA 500, appropriate preliminary tests must be carried out, since many factors may affect the compatibility with other recipe components, interaction with the coated material, storage stability, etc.

PACKING INFORMATION

This product is available in 50 kg and 245 kg carboy.

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 up to 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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