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TECHNICAL DATA SHEET

ASPERA PU WH3100

Waterborne polyurethane dispersion for coating technical textiles and nonwovens

ASPERA PU WH3100 is a medium soft polyurethane binder. It is a water based dispersion of aliphatic polyurethane polyether based which is free from organic solvents. The product has a high light fastness and high adhesion properties.

TYPICAL PROPERTIES

Colour	: Bluish liquid
Solid Content	: 31 ± 1%
Ionic Nature	: Anionic
pH Value	: 7.0 - 8.5
Film Character	: Medium Soft

CURING

The treated goods should be cured at temperatures of at least 130⁰C after drying to give complete cross linking and fix the product on the fiber.

General curing conditions are 130 – 180⁰C for 3 min – 15 sec.

COMPATIBILITY

Good to very good compatibility with:

- Most anionic and nonionic polymer dispersions in our product range, e. g. Indofil HA series
- Crosslinkers such as Indofil Fixer AF, Fixer FF etc
- Indofil pigment preparations
- Indofil KST and Indofil ASE 60 thickening agents

SALIENT FEATURES

- Non tacky, smooth surface touch
- Excellent adhesion with strong mechanical stability
- Excellent covering and filling properties
- Good light fastness
- Good oil and water resistant.
- Imparts good wet & dry rub fastness.

APPLICATIONS

Aspera PU WH3100 is a coating agent for woven and non woven fabrics. The dispersion is converted into a paste with the aid of a thickening agent prior to coating.

- Aspera PU WH3100 has excellent film-forming properties that come close to those of coating agents in organic solvents.
- It forms hard films and can therefore be used for top coats, alone or in blends with Aspera PU W3000 or W4000.
- Aspera PU WH3100 coatings are tack-free.
- The fastness to washing and dry-cleaning is excellent, especially after cross linking with fixing agent.
- Aspera PU WH3100 coatings have very good mechanical strength.
- Aspera PU WH3100 is ideal for foam coatings.

PRECAUTIONS WHILE USING

1. Product should be stored in a cool environment away from sunlight and excessive heat.
2. Keep Drum Closed when not in use.
3. Use in Well Ventilated Surroundings.
4. Use appropriate equipment during handling and application.

PACKING INFORMATION

This product is available in PE plastic drums of 100 Kg.

STORAGE RECOMMENDATION

Keep the product in dry condition below 35⁰C. Keep the container lid tightly closed when not in use to prevent unnecessary evaporation. The storage stability of this product may be reduced substantially if it is stored at temperatures above 40⁰C.

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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