

Project titled

“Development of innovative sportech products such as sailing clothes, ballooning fabrics, high adventure sportswear, tents etc. using low energy, environment friendly hot melt application for new entrepreneurs in sportech sector.”

Point 1: Novelty

This research determines the performance of the coated/laminated textiles through hot melt coating and lamination technology and helpful in generating primary data on developed coated and laminated fabric. The following specific objectives emerge from the goal of this study:

1. To develop coated and laminated Sportech products by environmental friendly hot melt coating and laminating technique
2. To assess performance of these developed coated/laminated textiles

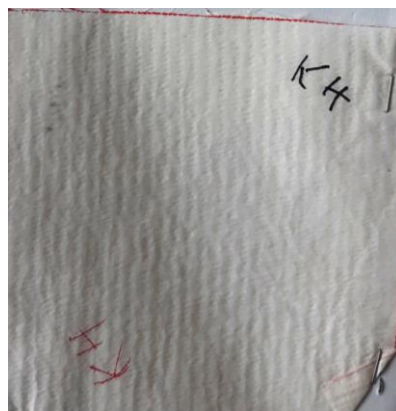
Benefits of Hot Melt Technology

- ✓ Solvent-free, NO Release of VOCs
- ✓ No need to invest heavily in solvent recovery or combustion installations
- ✓ Low energy consumption (no energy-intensive drying)
- ✓ High-speed adhesive application possible
- ✓ Rapid further processing
- ✓ No water effluent

Point 2: Cross sectional view of development:**Samples Developed****K1****K2**



K3



K4

Point 3: Publication & Patent in the project

a. Publication:

1. M. Basuk & Dr. Girish Kherdekar, *A Synopsis on Coating & Lamination in Textiles: Process & Applications*, **Textile Value chain** " March 2018
2. M. Basuk, *Fabric Lamination: Type, Defects & Remedial Measures*, **Dye Chem Pharma Business News** ", April 2018, page 32-36
3. M. Basuk & J. Behera, *Enhancement of functional properties of textiles through lamination using hot melt coating and lamination technology*, **International Dyer & Technical Finisher**, Issue 4, 2018.

b. Patent:

Ref. Application No. 201821038771, “Hot Melt Laminated Waterproof & Waterproof Breathable Fabrics For Sport Textiles”

Point 4: Commercialization partner industries:

Industries shown interest in commercialization:

1. Kusumgar Corporates
2. Bhavi Multifab Pvt. Ltd.