TRINITY COLLEGE FOR WOMEN
NAMAKKAL

DEPARTMENT OF COSTUME DESIGN & FASHION

TEXTILE FINISHING

ODD SEMESTER

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FUNCTIONAL **FINISHING**

WHAT IS FINISHING ??????

- Finishing is a final process given to a textile material to
  - Give a good appearance
  - Desirable feel
  - Impart certain durable properties
    - Stiffness
    - Softness
    - Wash and wear finish
    - Water repelling finish
    - Fire proof finish etc.
  - To impart some desired functional properties

- Aesthetic Finish
  - These finishes modify the appearance and / or hand or drape of fabrics
- Functional Finish
  - These finishes improve the performance properties of fabrics

FUNCTIONAL FINISHES

- Functional Finishes improve the performance properties of the fabric ; like durability, strength etc.

- Antimicrobial/Antiseptic
- Antistatic
- Crease resistant
- Durable Press
- Flame Resistant
- Mothproof
- Shrinkage Control
- Soil Release
- Water Proof/Repellant

WATER REPELLENT FINISH

- Water repellent are chemical finish
- Resist the penetration of water into or through the fabric
- Permits the passage of moisture or air through the fabric
- Methods
  - The yarns are coated with water repellent material like wax
  - The water repellent do not permit the water drop to spread and penetrate
  - Could be of durable and non-durable types

FIRE RESISTANT FINISH

- With synthetic fiber which melt on igniting by a flame, the molten moss is itself quite dangerous and a fire resistant treatment is desirable for certain end uses.
- Polyester fabrics can be made flame resistant by treatment with an aqueous emulsion of xylene soluble 2,3-dibromopropyl phosphate in a pad-cure sequence.
- A semi-permanent effect can be produced by treating with a mixture of ammonium bromide and brominated phosphoric acid esters.

SOIL RELEASE FINISH

- **What is soiling of textiles?**
  - Textile material getting attracted to dirt or soil
    - Development of static charge electricity to hydrophilic textiles, making them prone to soiling
    - Re-deposition of soil during washing
  - The soils cannot be readily removed
    - Hydrophobic materials are not wetted properly during laundering

ANTISTATIC FINISH

- Synthetic fibres of hydrophobic nature are prone to generation of static charges
- This problem is very troublesome while processing the fabric at high speed in dry state
- Antistatic agents are used
- Antistatic agents absorb small amount of moisture from the atmosphere, thus reducing the dryness of the fabric
- Antistatic finishes are semi-durable
  - Washes out at several launderings or dry cleanings

THANK YOU

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