

DYE FIXING AGENT – CONCLUDING PART

REF: TT/ MAY 2020 / WK 1

Reactive dyes and dye fixing agents

Reactive dyes are the majorly used dyes for developing shades on cotton goods because of its various advantages. Most of the wet processing industries are using reactive dyes on textiles for coloration. These dyes are the class of dyes which make co-valent bonds with the cellulosic fiber molecules, so the color fastness characteristics become greater.

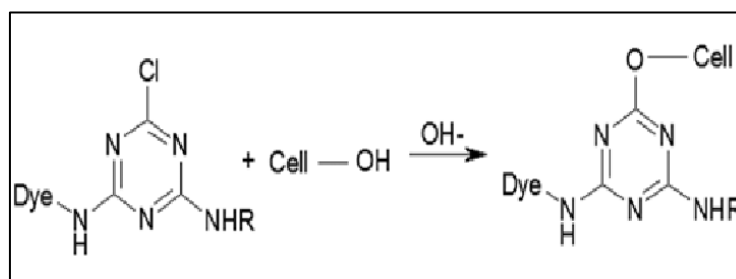


Fig 1.1 Reactive Dye – Cellulose Bond

However, weakly bonded unfixed dyes or hydrolyzed dyes on the surface of the fiber become the reason of poor color fastness properties.

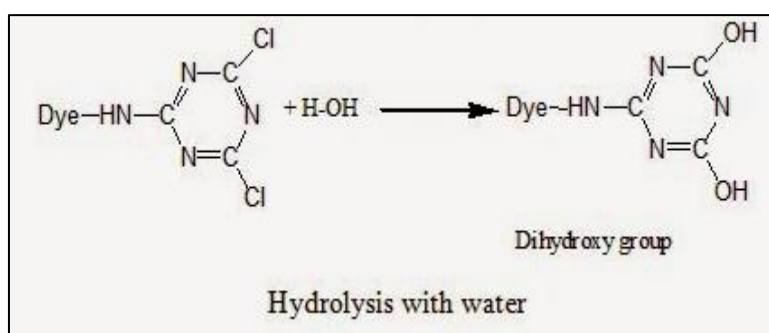


Fig 1.2 Hydrolyzed Reactive Dye



Hence, after treatment is carried out to remove these weakly bonded unfixed dyes or hydrolyzed dyes from the fiber substrate. So, in order to improve the wet fastness properties, dye fixing agents are used after reactive dyeing to improve the stability of co-valent bond between dye and fiber molecules.

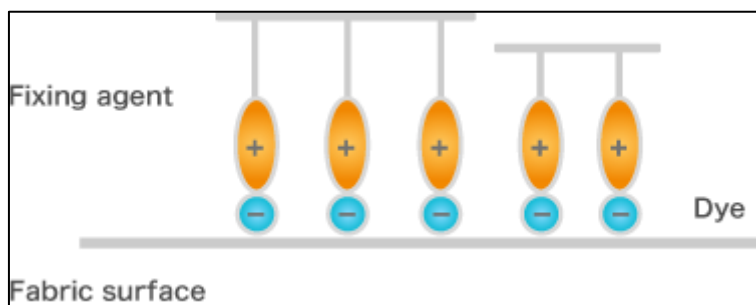


Fig 1.3 Dye fixing agent – dye mechanism

And also, to fasten the hydrolyzing dye which is not washed-off during various rinsing and soaping processes. Thus, it will not influence the evaluation of wet fastness. Moreover, finishing use the cationic dye-fixing agent, we can prevent the dye fabric from being stained because of the hydrolyzing dye in an improper storage environment.

Wishing you a great week ahead!

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