

Application of microencapsulation technique in functional textile

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Abstract:-

The textile roots of yeast microencapsulation technology were introduced as were the wide range of applications in food and other business sectors. In microencapsulation in general the number of commercial applications in the textile industry continues to grow particularly in the textile industries of Western Europe, Japan and North America. The move by the more developed countries into textiles with new properties and added value, into medical textile and technical textiles for example has encouraged the industry to use microencapsulation processes as a means of imparting finishes and properties on textiles which were not possible or cost-effective using other technology. Textile manufacturers are demonstrating increasing interest in the application of durable fragrances to textile as well as skin softeners. Other potential applications include, insect repellents, dyes, vitamins, antimicrobials, medicated bandage , phase change materials and in specific medical applications, antibiotics, hormones and other drugs. Examples of each technology are described. A short summary of a new microencapsulation technology with roots in the textile industry, yeast based microencapsulation, is also described. This article is a review of microencapsulation and materials involved in it, morphology of microcapsules, microencapsulation technologies, purposes of microencapsulation, and benefits of microencapsulation, release mechanisms, and application fields, with special emphasis on microencapsulated additives in functional textile and procedure of encapsulating on the textile substrate.



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