coordinator

AITEX is a Spanish non-profit making private association formed by textile and related companies. In the field of standardization and quality, it has advanced testing laboratories that are authorized to award several certifications. AITEX participates in various EC initiatives, supporting the companies in different EU-funded projects. AITEX has coordinated several LIFE projects such as:

LIFEENV99/E/346 - "The application of advanced photo-oxidation techniques in the treatment of residual waters in the Textile industry"

LIFE03 ENV/E/000102 - "Water Purification Tertiary Treatment using Photo-oxidation at semindustrial scale"

LIFE05 ENV/E/000285 - "Alternatives for waste volume reduction in the textile sector through the application of minimisation measures in the production process and in the consumption"

LIFE07/ENV/E/000794 - "Risk reduction to public health from environmental sources using biotechnology in the textile sector",

LIFE09/ENV/ES/000461 - "Demostrative solutions to reduce noise pollution in industrial areas, using finsihing technologies in textile materials"

LIFE10 ENV/ES/000431 - " Wet-laid technology application for textile residues revalorization in composites industry"

LIFE11/ENV/ES/0000600 - "Revalorization of coastal algae wastes in textile nonwoven industry with applications in building noise isolation"

LIFE11(ENV/ES/000552 - "BIO-Monitoring and Automatic Microbiological Contamination Control System of Industrial Hydraulic Circuits"

the consortium

aitex®
textile research institute

Asociación de Investigación de la Industria Textil
AITEX
www.aitex.es

COLORPRINT fashion

Colorprint fashion s.l.
www.colorprintfashion.com

Universidad Católica San Antonio de Murcia
www.ucam.edu

UNIVERSITÀ DEGLI STUDI DI BARI ALDO MORO

Università Degli Studi di Bari. "Aldo Moro"
www.uniba.it

For further information:
AITEX Plaza Emilio Sala, 1
03801, Alcoy (Alicante)
Tel: +34965542200
Fax: +34965543494
efranco@aitex.es – jramos@aitex.es
www.aitex.es

www.dyes4ever.eu

dyes4ever

DEMONSTRATION OF CYCLODEXTRIN TECHNIQUES IN TREATMENT OF WASTE WATER IN TEXTIL INDUSTRY TO RECOVER AND REUSE TEXTIL DYES

Life

dyes4ever

needs

ENVIRONMENTAL PROBLEM

Coloration of waste waters produced in the textile industry.

Water contamination with persistent contaminants.

ECONOMICAL PROBLEM

Huge amount of water consumption during the textiles finishing.

The systems currently used not allow recovering the dyes. Therefore, a big amount of dyes is used.

objectives

DYES4EVER main aim is the demonstration and validation of:

- The ability of cyclodextrins (CDs) as encapsulation agents for dyes, eliminating them from waste water so they can be recovered and reused as raw material.
- Obtaining less contaminated waste water that can also be reused.
- Semi-industrial scale pilot will be set up to recover CDs and dyes in waste water, result of dyeing.

expected results

The idea is to produce waste water free of dyes

To reuse the dyes recover from waste water