

## Ultreza series

### Ultreza PES

**Polyester levelling agent which not only covers the barriness but also promotes the migration thereby achieving level dyeings.**

#### INTRODUCTION

Levelling agents are added in dyebath to uniformly dye the yarns or fabric. Their presence in the processing media (dye solution or processing pastes) is absolutely necessary from the point of view of obtaining level shades, good depth and optimum colour value. In case of disperse dyes their molecules being bulkier have poor migration properties (in the fibre substance) and hence produce poor and uneven dyeing. Thus, levelling agents have to be used to avoid poor and uneven dyeing.

In the dyeing of texturised 100% polyester material barriness is observed due to dyeability differences in the material. The difference in dyeability arises due to variation of temperature and tension during texturisation. The temperature can be controlled in order to avoid variation but it is more difficult to control the variation in tension. This is revealed only after the dyeing particularly when dyes of lower migration properties are used. In this case use of special chemicals during dyeing will minimize the problem. **Ultreza PES** not only acts as a levelling agent but also promotes the migration thereby achieving level dyeing.

#### FEATURES

- Ultrreza PES liquid is the most ideal leveling agent which covers the barriness effectively in the dyeing of polyester & polyester blends with disperse dyes.
- It also improves the dispersion stability of the dyebath.
- When used in higher concentrations it acts as stripping agent.
- Low foaming
- Possess excellent thermal stability

#### PROPERTIES

Appearance	Brown liquid
pH	approx.8.5
Ionic character	Amphoteric
Compatibility with	
Cationic	Good
Anionic	Good
Non-ionic	Good

#### **STALWART ADVANCE MATERIAL INDS**

Application & Business Center, B-120, Ansa Industrial Estate, Saki Vihar Road, Sakinaka, Andheri (E), Mumbai – 400 072.  
email: [sales@stalwartadvance.com](mailto:sales@stalwartadvance.com); web: [www.stalwartadvance.com](http://www.stalwartadvance.com); Customer care:1800 121 3497

## **SAMPLE RECIPE FOR DYEING OF TEXTURISED POLYESTER**

### **Barre' covering during dyeing of PES**

In the dyeing of texturised 100% polyester goods, set the bath at 60°C with

1 – 2 %	<b>Ultreza PES</b>
0.5 – 1 %	Ultreza CPD
1 – 2 g/l	Neutracid ABD (pH 4.5 – 5.5)

Treat the material for 5 minutes, then add disperse dye dispersion and treat for 5 minutes further. Raise the temperature to 130°C in 45 – 60 minutes and carry out dyeing at 130°C for 30 – 60 minutes.

### **Correction of Faulty dyeings**

In a blank bath, treat the material at 130°C for 60 minutes with

2 – 4 %	<b>Ultreza PES</b>
2 %	Ultreza CPD
1 – 2 g/l	Neutracid ABD (pH 4.5 – 5.5)

### **Thermosol dyeing**

10 g/l **Ultreza PES**

In the padding liquor, ensures level dyeing.

### **Printing**

5 – 10 parts/kg **Ultreza PES**

Helps to achieve level prints (especially big blotches) in the direct style of printing with disperse dyes.

## **STORAGE AND HANDLING**

Precautions for safe handling	Do not eat, drink or smoke while handling the product.
Conditions for safe storage	Store in a cool, dry & ventilated area away from the sources of heat.
Shelf Life	6 months.

Note: Kindly refer SDS for further information on Storage & Handling.

**Ultreza is a registered trade name of Stalwart Advance Material Inds.**

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The information and recommendations presented here were based on our general experience and correspond to the state of our knowledge. They are intended to service as non-binding guidelines and must be adapted to the prevailing conditions. We cannot accept liability for any injury, loss or damage resulting from reliance upon such information.

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