

## Ultreza series

### Ultreza RLA

#### Reactive leveling agent for dyeing on cellulosic fibres.

#### INTRODUCTION

Level dyeing is achieved by controlled exhaustion of the dye so that it is taken up evenly and migration of dye after initially unlevel sorption on the fiber. In some cases level dyeing can be influenced by dye-bath pH and/or presence of electrolytes. However, to produce better yields with correct depth, leveling agent is a must. During exhaust dyeing of cellulose, pad batch or continuous dyeing with direct, vat, sulphur, naphthol and reactive dyes as well as indigo types, it is necessary to prevent the disturbing effect of inactivated ions or any prematurely oxidized dye in order to prevent stains, markings and un-levelness.

**Ultreza RLA** is designed to satisfy the need which effectively combines dispersing and leveling properties to uniformly dye the fabric. It allows the dyer to simplify the process to shorten the dyeing time by:

- proper handling and introduction of the totality of the electrolyte previously to the dyes;
- linear addition of alkali, without a dispensing system at a selected temperature in max. 30 mins.

#### FEATURES

- Competes with dye molecules to go onto the fabric to provide uniform leveling.
- Has inbuilt sequestering properties.
- Has dispersing properties that prevents dye agglomeration.
- Performs action of chelation for both alkaline earth metals and heavy metal ions.
- Decreases hardness present in water to a great extent.
- Stable in presence of electrolytes
- Suitable for jet and soft flow machines
- Ecological as it is free from APEO and other banned chemicals.

#### PROPERTIES

Appearance	Dark brown liquid
pH	approx.5.0
Ionic character	Anionic

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

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Compatibility with	
Cationic	Poor
Anionic	Good
Non-ionic	Good
Stability to temperature	Good
Stability to hardwater	Good
Stability to electrolyte	Good

### **SAMPLE RECIPE FOR REACTIVE DYEING**

	Add chemicals preferably at 40°C & pH 6.0
0.75 – 2 g/l	Lubatex ACA
0.7 – 1.0 g/l	Neoquest PCS
0.7 – 1.0 g/l	<b>Ultreza RLA</b>
x g/l	Glauber's salt
y %	Reactive dyes
	Gradually raise the temp to 60°C in 30 mins.
	Add
y g/l	soda ash
	Continue dyeing for 60 mins. Drain.
	Rinse hot for 15-20 minutes at 60-70°C
	Soaping treatment with
0.5 – 1.0 g/l	Evoran DSP
	Wash at 90°C for 15 – 20 minutes.
	Repeat washing for deep shades. Drain
	Neutralize with
1 g/l	Neutracid AAS for 15 – 20 minutes at 40-60°C. Drain.

### **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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