

Evoran series

Evoran SAN

Soaping agent for nylon after acid dyeing

INTRODUCTION

Since acid dyes are negatively charged, the dyes are attracted to positive dye sites appearing in the targeted substrate. With respect to nylon, positive dye sites can be created by exposing the free amino groups contained within the polymer matrix to an acid. In particular, when exposed to acidic conditions, the amino groups are activated by protonation and become positively charged and cationic. Once positively charged, the acid dyes are strongly attracted to the cationic sites.

In general, acid dyes have a high affinity for protonated polyamide materials, meaning that the dyes have a strong tendency to quickly bind to the polymer. Unfortunately, however, once in contact with the cationic polymer surface, acid dyes have a tendency to poorly diffuse into the polyamide. In other words, acid dyes exhibit such a high rate of strike that they do not diffuse evenly into polyamides. Thus, if the dye is absorbed by the polymer too quickly, the polyamide material can absorb the dye unevenly and not exhibit a constant shade or color. In such cases, anionic leveling agents act by competing for the dye sites and are mainly used to counter-act fiber-oriented un-levelness due to physical and chemical irregularities in the fibre.

During washing-off dyeings and prints with acid dyes, the wet-fastness and rubbing fastness properties must be retained or improved. **Evoran SAN** accelerates migration of hydrolysed dye from the textile fiber into the dye bath. It also prevents staining of the ground in case of printed goods. **Evoran SAN** is an excellent poly-condensate that has amphoteric properties to satisfy these needs.

FEATURES

- Marked improvement of the wet fastness
- No influence on the shade
- Does not attack metal complex dyes
- Promotes the removal of unfixed dyes
- No tendency to yellowing
- Facilitate printing of nylon fibers with acid dyes
- Free from APEO

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; web: www.stalwartadvance.com; Customer care:1800 121 3497

PROPERTIES

Appearance	Reddish brown liquid
pH (1%)	approx.8.0 – 9.0
Ionic character	Anionic

Compatibility with -	
Cationic	Poor
Anionic	Good
Non-ionic	Good

Stability to -	
hard water	Good
electrolyte	Good
temperature	Good

SCOPE OF APPLICATION:

Evoran SAN is highly suitable for use when washing of dyeing or prints on polyamide fibers, where it improves the wet-fastness properties. This is especially the case with dyeing or prints made with acid dyes. Soft water should be used if possible.

SAMPLE RECIPE

Dyeing of Nylon

2.0 – 3.0 %	Neutracid ADN
1.0 – 3.0 %	Sodium acetate
1.0 – 3.0 %	Ultreza LAN
	Raise the temperature to 50°C & run for 10 minutes.
x %	1:2 Metal Complex dyes
	Treat at 100°C for 50-60 mins.
	Lower the temperature to 80°C and drain the bath.
	Rinse thoroughly for 20 mins. at 50°C
	Raise the temperature to 90°C
1.0 – 2.0 g/l	Evoran SAN
	Treat for 20-30 mins.
	Cold wash for 15-20 mins.
	Drain.

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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.

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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