

Versetol series

Versetol NPA

Non-ionic penetrating agent suitable for all stages of wet-processing.

INTRODUCTION

When a drop of liquid is placed on a solid surface, the liquid may form a bead on surface, or it may spread to form a film. A liquid having strong affinity for solid. i.e. if its surface tension is less than the critical surface tension of the surface, will seek to maximize its contact (interfacial area) and spread to form a film. However, if its surface tension is more, it will form a bead. In other words the object of wetting step is the rapid and thorough displacement of air from the surface of the solid so that uniform penetration of various other chemicals may be effected.

Penetrating agents are used in pre-treatment of yarns and fabrics. The function being to support the separation of impurities from the fibres. They are required to be chemically stable under highly alkaline conditions, to have a wetting time of the order of few seconds, to form no foam of their own, to suppress process foam and in addition, to be readily bio-degradable.

Versetol NPA is a non-ionic penetrating agent which is chemically stable under high alkaline conditions, and wets the fibre rapidly by diffusing through its surface

FEATURES

- Has high penetrating power.
- Does not have adverse effect on other auxiliaries in bath.
- Is stable over a wide range of temperature
- Does not give turbidity in the solution or deposits on the fiber or machine parts.
- Excellent emulsifying action.
- Free from APEO, nitrogen and phosphorous.

PROPERTIES

Appearance	Clear colourless liquid
pH	approx.7.0
Ionic character	Non-ionic

STALWART ADVANCE MATERIAL INDS

Application & Business Center, B-120, Ansa Industrial Estate, Saki Vihar Road, Sakinaka, Andheri (E), Mumbai – 400 072.
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Compatibility with	
Cationics	Good
Anionics	Good
Non-ionics	Very Good
Stability to	
hard water	Good
alkali	Good (up to 40 g/l)
temperature	Good

SCOPE OF APPLICATION

1. *Discontinuous protonic treatment for knits*

1 – 3 ml/l	Neoquest PP
0.75 – 1.5 ml/l	Versetol NPA
	Treat for 20-30 mins at 40-50°C

2. *Continuous Protonic pretreatment by the pad batch method for woven*

2 – 8 ml/l	Neoquest PP
2 – 8 ml/l	Versetol NPA
	Pick up 100%
	Batch 2 to 4 hrs at RT, wrapped in plastic foil, rinse hot, warm and cold.

3. *Scouring & Peroxide bleach (liquor ratio 1:10)*

	Add chemicals preferably at 40°C
0.7 - 1.0 ml/l	Versetol NPA
0.7 – 1.0 ml/l	Neoquest HRS
0.7 – 1.0 ml/l	Evosurf NDC
0.75 – 2 ml/l	Lubatex ACA
3 – 5 ml/l	caustic soda 36°Bé
3 – 6 ml/l	hydrogen peroxide 35%
0.3 – 0.8 ml/l	Oxystab IPS
	Heat to 98°C.
	Treat at the boil for 45 – 60 minutes
	Cool to 70°C. Drain
	Rinse hot for 10 – 20 minutes at 80°C. Drain

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1ml/l Neutralize with
Neutracid AAS for 15 – 20 minutes at 40-60°C. Drain
Remove residual peroxide with
0.7 – 1.0 ml/l Protozyme CPK for 15 - 20 mins at 40-60°C & pH 6-8. Drain.

4. Dyeing recipe for reactive

Add chemicals preferably at 40°C & pH 6.0

0.7 - 1.0 ml/l **Versetol NPA**
0.75 – 2 g/l Lubatex ACA
0.7 – 1.0 g/l Neoquest PCS
0.7 – 1.0 g/l Ultreza RLA
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
1.0 – 1.5 g/l Evoran DSP
Wash at 90°C for 15 – 20 minutes.
Repeat washing for deep shades. 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.

Versetol is a registered trade name of Stalwart Advance Material Inds.

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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