Orco Sunguard N-2™

Orco Sunguard N-2™ is an UltraViolet (UV) absorber/stabilizer for use on nylon upholstery and automotive fabrics to enhance lightfastness and tensile strength having stability in most dyebaths. It is primarily designed for use with Orcolan Neutral™ premetallized dyes. Orco Sunguard N-2™ has no adverse effects on yarn strength and in fact may offer a marked improvement.

Physical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Composition</td>
<td>Nitrogen compound</td>
</tr>
<tr>
<td>Appearance</td>
<td>green liquid dispersion</td>
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<tr>
<td>Ionic Nature</td>
<td>slightly anionic</td>
</tr>
<tr>
<td>pH</td>
<td>6.9-7.1 for a 5% solution</td>
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<tr>
<td>Solubility</td>
<td>dispersible in warm water</td>
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<tr>
<td>Density</td>
<td>9.4 lbs/gal</td>
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</tbody>
</table>

Advantages

- Compatible in normal pH dyeing range offering level exhaust properties
- Minimal shade change
- Effective on fabric and carpet with no shade restrictions

Applications

- Nylon carpet, yarn, and fabric

Procedures

**Exhaust**

- Pre-disperse Orco Sunguard N-2™ in warm water. Use 1.0-2.5% Orco Sunguard N-2™ on weight of fabric (owf) depending on dye & lightfastness requirements and on the amount of nylon present.
- In a bath at 75-90°F(24-32°C) add one of the following buffering systems:
  - pH < 6 Ammonium Acetate and acetic acid
  - pH 6-8 MSP and DSP
  - pH >8 TSPP and acetic acid
- Add X% Orco Sunguard N-2™ and 0.25-0.75 % owf Orcosol SW
- Circulate for 5 minutes and add dyes.
- Raise to 212°F(100°C) over one hour to promote levelness.
- Run for one hour and cool to 140°F(60°C).
- Rinse, extract, and dry.

**After-treatment**

- Set fresh bath to 75-90°F(24-32°C) and add 1-2% owf Orco Sunguard N-2™.
- Raise temperature to 160-180°F(71-82°C) over one hour. Hold for 20 minutes at this temperature.
- Rinse, extract, and dry.