

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 dye baths. It is primarily designed for use with **Orcolan Neutral™** premetallized Acid dyes. **Orco Sunguard N-2™** has no adverse effects on yarn strength and in fact may offer a marked improvement.

Physical Properties

Composition	Nitrogen compound
Appearance	green liquid dispersion
Ionic Nature	slightly anionic
pH	6.9-7.1 for a 5% solution
Solubility	dispersible in warm water
Density	9.4 lbs/gal

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™**
- 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.

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