

Technical Data Sheet

Product Name: Nova SC103

Anti-Flooding & Flow Modifier (Non-Silicone)

Version: 03/2025

1. Product Description

Nova SC103 is a **non-silicone surface control additive** engineered to minimize **pigment flooding, flocculation, and color separation in solvent-based coatings**. It also enhances **film leveling**, improving gloss, color consistency, and smoothness—especially in **metallic and pearlescent finishes**.

Formulated with high-activity flow-modifying compounds, **Nova SC103** offers **excellent resin compatibility** and is designed for systems where silicone additives may negatively affect adhesion, clarity, or recoat ability.

2. Applications

- Metallic & pearlescent automotive basecoats
- PU and NC wood finishes
- Solvent-based alkyd topcoats and synthetic enamels
- High-gloss industrial topcoats
- Systems sensitive to silicone contamination or requiring recoat ability

3. Physical and Chemical Properties

Property	Specification
Appearance	Hazy Amber Liquid
Solubility	Solvent-compatible
Specific Gravity @ 20°C	~ 0.88 – 0.91 g/cm ³
PH (10% solution)	10-12
Active Content	~ 95%

4. Key Benefits & Market Value

- **Anti-Flooding Performance**
Prevents pigment separation and floating in multi-pigment systems (e.g., TiO₂ + organic colors or metallics).
- **Enhanced Leveling & Flow**
Improves surface uniformity, reduces edge crawling, and supports smooth film formation.
- **Non-Silicone System**
Maintains **intercoat adhesion** and avoids cratering or recoat problems often linked to silicone-based additives.
- **Improved Metallic Orientation**
Particularly effective in automotive basecoats for enhanced flake alignment and visual clarity.
- **Low Dosage Efficiency**
Active content >95%, delivering performance at minimal use levels—cost-effective and easy to handle.

4. Usage Guidelines

- Recommended Dosage: 0.2% – 0.6% based on total paint formulation weight.
- Incorporation: Best added during pigment dispersion phase.
- Pre-dilution with solvents is possible for easier handling.
- Compatibility Testing: Testing with specific resins and pigment systems is advised to optimize results.

5. Storage and Handling

- Store in a **cool, dry place**, away from direct sunlight.
- Keep containers **tightly sealed** when not in use to prevent contamination.
- Use **appropriate personal protective equipment (PPE)** when handling.

6. Packaging

- **50 kg drums**
- **200 kg barrels (non-returnable containers)**

For customized packaging options, please contact our sales team.

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