

Technical Data Sheet

Product Name: Nova SC104

Non-Silicone Leveling Agent for Solvent-Based Coatings

Gloss Control & Flow Modifier

Version: 03/2025

1. Product Description

Nova SC104 is a non-silicone, solvent-based leveling and flow control additive designed for clear and pigmented systems where recoat ability, film clarity, and surface uniformity are critical. It offers excellent surface tension control and eliminates defects such as cratering, pinholes, and orange peel without affecting gloss or compatibility.

Nova SC104 is especially suited for polyurethane and acrylic topcoats where silicone-based additives may cause side effects.

2. Applications

- PU acrylic and polyester coatings (automotive, plastic, industrial)
- Solvent-based clear coats and pigmented topcoats
- Recoat able systems requiring anti-crater control
- Helmet, plastic, and high-gloss clear finish coatings

3. Physical and Chemical Properties

Property	Specification
Appearance	Slightly yellow liquid
Solubility	Solvent-compatible
Specific Gravity @ 20°C	~ 0.90 – 0.96 g/cm ³
PH (10% solution)	5 - 7
Active Content	~ 70%
Acid Value	35 – 40 mg KOH/g

4. Key Benefits & Market Value

- **Non-Silicone Formula**
Prevents side effects like intercoat adhesion failure or printability interference.
- **Powerful Anti-Crater Control**
Minimizes surface tension defects during application and drying.
- **Gloss and Clarity Optimization**
Maintains brilliance in **high-gloss clear coats**, with no haze or migration.
- **Wide Compatibility**
Compatible with polyurethane, acrylic, nitrocellulose, and polyester systems.
- **Spray and High-Shear Friendly**
Performs in demanding conditions (air-mix, HVLP, or high-shear processing) without microfoam or leveling loss.

5. Usage Guidelines

- **Recommended Dosage:** 0.1% – 0.3% on total formulation weight
- **Incorporation:** Add during the letdown or at the end of the formulation
- **Pre-Dilution:** Optional with carrier solvents for easier handling

6. 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.

7. Packaging

- **50 kg plastic drum**
- **200 kg barrels (non-returnable containers)**

For customized packaging options, please contact our sales team.

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