

## Technical Data Sheet

### Product Name: Nova SC101

High-Efficiency Defoamer & Surface Agent

Version: 03/2025

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### 1. Product Description

Nova SC101 is a high-performance **surface control additive** designed to improve **leveling, substrate wetting, and film smoothness** in a wide range of **solvent-based coatings, inks, and adhesives**. Engineered for versatility and performance, it helps eliminate surface defects like craters, pinholes, and orange peel while supporting optimal solvent flow behavior.

Nova SC101 is formulated with a balanced blend of low surface tension carriers and leveling agents, Nova SC101 enhances finish quality without negatively affecting intercoat adhesion or over coating performance.

### 2. Applications

- Automotive and industrial topcoats
- PU and NC wood finishes
- General-purpose solvent-based enamels and primers
- Gravure and screen printing inks
- Solvent borne adhesives and sealants
- Coatings applied by spray, dip, or roller techniques

### 3. Physical and Chemical Properties

Property	Specification
Appearance	Clear, pale yellow liquid
Solubility	Solvent-compatible
Specific Gravity @ 20°C	~ 0.88 – 0.95 g/cm <sup>3</sup>
Boiling Point (°C)	120 – 150°C
Odor	Mild aromatic

## 4. Key Benefits & Market Value

- **Superior Flow & Leveling**  
Promotes smooth, even film formation by eliminating surface tension disruptions.
- **Defect Reduction**  
effectively prevents craters, fisheyes, orange peel, and edge crawling in topcoats and basecoats.
- **Substrate Wetting Enhancement**  
Improves coating adhesion on low-energy surfaces (plastics, metals, composites).
- **Low Foaming Behavior**  
Reduces air entrapment in high-speed applications like spray or roll coating.
- **High Compatibility**  
Compatible with PU, NC, alkyd, epoxy, and thermoplastic acrylic systems.

## 5. Usage Guidelines

**Recommended Dosage:** 1 – 5% depending on application

**Addition Method:** Add gradually under agitation for uniform dispersion

 **For best results**, conduct a preliminary test to determine the optimal dosage based on the specific formulation.

## 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 drums
- 200 kg barrels (non-returnable containers)

For customized packaging options, please contact our sales team.

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