

Technical Data Sheet

Product Name: Nova SC102

Wetting and Anti-Cratering Agent

Version: 03/2025

1. Product Description

Nova SC102 is a high-efficiency **surface control additive** developed to improve **slip, flow, and anti-crater performance** in solvent-based paints, coatings, and printing inks. Formulated using silicone-modified polymers in a controlled aromatic carrier, it enhances surface smoothness while reducing surface tension and minimizing surface defects like cratering, pinholes, and orange peel.

Designed for use across a wide range of solvent-based resins, **Nova SC102** offers exceptional slip performance **without affecting intercoat adhesion**—making it ideal for systems requiring recoat ability, clarity, or overprint compatibility.

2. Applications

- PU & NC wood coatings (clear gloss or pigmented)
- Solvent-based automotive topcoats and basecoats
- Industrial metal enamels and maintenance coatings
- Screen, gravure, and flexographic inks
- Adhesives and plastic coatings requiring smooth finishes
- High-slip topcoats (cosmetic, consumer electronics, plastics)

3. Physical and Chemical Properties

Property	Specification
Appearance	Amber Liquid
Solubility	Solvent-compatible
Specific Gravity @ 20°C	~ 0.88 – 0.93 g/cm ³
PH (10% solution)	10-12
Active Content	~ 90%

4. Key Benefits & Market Value

- **High Slip Efficiency**
Improves scratch and mar resistance, enhances tactile smoothness, and increases surface slip in topcoats.
- **Crater & Surface Defect Control**
effectively suppresses craters and flow disruptions, especially in solvent-sensitive applications.
- **Recoat ability & Overprint Stability**
engineered to deliver slip and leveling **without surface overbuild or intercoat issues.**
- **Broad Resin Compatibility**
PU, NC, alkyd, epoxy, vinyl, and acrylic systems—ideal for wood, metal, and plastic substrates.

5. Usage Guidelines

- Recommended Dosage: 0.1% – 0.5% on total formulation weight.
- Incorporation: Nova SC102 can be added during the pigment grinding stage or during final let-down.
- Pre-dilution with solvents is possible for easier handling.
- Compatibility Testing: Prior testing is recommended to confirm compatibility with specific resin systems and solvents.

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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