

Technical Data Sheet

Product Name: Nova AS101

Anti-Scratch & Gloss-Leveling Additive

Version: 06/2025

1. Product Description

Nova AS101 is a **high-performance solvent-based additive** engineered to enhance **scratch resistance, gloss consistency, and surface flow** in high-quality coatings. It functions by forming a **flexible, abrasion-resistant film matrix**, improving both aesthetics and durability without compromising gloss or compatibility.

Its optimized formulation provides effective **surface control**, gloss leveling, and micro-roughness reduction across **PU, NC, alkyd, and acrylic systems**.

2. Applications

- Polyurethane (PU) topcoats (automotive, wood, plastic)
- Alkyd & modified alkyd decorative finishes
- NC-based clear & pigmented wood coatings
- Plastic and metal industrial coatings
- Metallic basecoats or synthetic enamels

3. Physical and Chemical Properties

Property	Specification
Appearance	Pale Yellow Liquid
Solubility	Solvent-compatible
Specific Gravity @ 20°C	0.93 – 0.98 g/cm ³
PH (10% solution)	8-10
Active Content	~ 95%

4. Key Benefits & Market Value

Enhanced Scratch & Abrasion Resistance

Benefit: Forms a resilient surface matrix that minimizes micro-scratches from daily use, handling, or abrasion.

Market Value: Boosts product durability and perceived quality in **furniture, plastic parts, automotive, and helmet coatings**—key for Indonesian OEMs and exporters.

Gloss Control & Surface Uniformity

Benefit: Promotes even gloss levels across the coated surface without matting or haze.

Market Value: Critical for achieving a **premium finish** in decorative and protective coatings—preferred by high-end brands and customers seeking visual perfection.

Improved Flow & Leveling

Benefit: Reduces surface tension to prevent orange peel, pinholes, and flow marks.

Market Value: Helps painters and coaters **reduce rework**, especially in **manual or semi-automated spray applications** commonly used in Indonesia.

Better Slip & Tactile Feel

Benefit: Enhances surface slip without introducing slipperiness or recoatability issues.

Market Value: Offers smoother handling and a **premium “feel”**—especially valued in **plastics, appliances, and consumer goods**.

Broad Resin Compatibility

Benefit: Compatible with **PU, NC, Alkyd, and Acrylic** solvent-based systems.

Market Value: Ideal for formulators who serve **multiple industries** (wood, metal, plastic) with shared base chemistries—**simplifies inventory and improves speed-to-market**.

5. Usage Guidelines

- **Recommended Dosage:** 0.7% – 1.4% on total formulation weight
- **Incorporation:** Add during letdown stage or post-dispersion
- **Pre-dilution:** Optional for better flow
- **Compatibility Testing:** Recommended prior to large batch production

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.

Disclaimer

The information provided herein is for general informational purposes only and is not guaranteed to be accurate, complete, or up-to-date. This document does not replace professional, technical, legal, or regulatory advice.

All information is provided "as is" without any warranties, express or implied, including but not limited to suitability, reliability, or fitness for a particular purpose. PT Chemical Additives Innovations disclaims any liability arising from actions taken based on this information.

© 2025 **PT Chemical Additives Innovations**. All rights reserved. This document is protected under international copyright laws.

For Technical Support & Product Inquiries

 **Email:** info@chemanova.com

 **Website:** www.chemanova.com