Technical Data Sheet

Product Name: Nova SA101

All-in-One Additive for Water-Based Applications
Version: 03/2025

1. Product Description

Nova SA101 is a **multi-functional, high-efficiency additive** developed for **water-based coatings, inks, and dispersions**. Acting as a **co-dispersant, pH buffer, corrosion inhibitor, and odor neutralizer**, **Nova SA101** provides wide-ranging performance enhancement in a single additive.

By optimizing pigment dispersion, increasing formulation stability, and improving both gloss and durability, **Nova SA101** allows formulators to **reduce up to 20% of traditional dispersant usage**, improving both **cost-effectiveness** and **ecological profile**.

2. Applications

- Architectural water-based paints (interior/exterior)
- Industrial aqueous coatings requiring improved dispersion and corrosion protection
- Pigment dispersions and universal colorants
- Water-based inks and overprint varnishes
- Adhesives and construction emulsions

3. Physical and Chemical Properties

Property	Specification
Appearance	Clear liquid, colorless to pale yellow
Solubility in Water	Complete
Specific Gravity @ 20°C	~1.10 g/cm³
pH (1% Solution)	12 – 14
VOC Content	Low-VOC
Foam Formation	Low foaming tendency

4. Key Benefits & Market Value

- **Advanced Pigment Dispersion**
  Prevents re-agglomeration and enhances color development, improving hiding power and shade purity.
- **Gloss & Durability Boost**
  Improves scrub resistance, water resistance, and gloss—ideal for interior and exterior formulations.
- **pH Buffer & Stability Enhancer**
  Stabilizes alkaline pH in latex systems and reduces formulation drift over time.
- **In-Can Corrosion Protection**
  Inhibits flash rusting and can corrosion in aqueous formulations, extending shelf life.
- **Low-Odor, Ammonia-Free**
  Replaces ammonia to reduce odor, improving user safety and compliance in indoor coatings.
- **Cost Optimization**
  Enables **up to 20% reduction** in conventional dispersant load, improving efficiency and raw material flexibility.

5. Usage Guidelines

Grinding Stage: Replace up to **20% of traditional dispersants** by adding **0.05–0.1%** of Nova S101 based on the total formulation weight.
Let-Down Stage: Add **0.1 – 0.4%** of Nova S101 to optimize **stability and neutralize associative thickeners**.

🎯 **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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