

Technical Data Sheet

Product Name: Nova DA102

Versatile Dispersant for Coatings

Version: 05/2025

1. Product Description

Nova DA102 is effective dispersing agent developed for both **solvent-based and water-based coatings**.

Nova DA102 improves pigment wetting, enhances dispersion stability, and prevents pigment flooding and settling. It is ideal for **primers, undercoats, corrosion-resistant paints**, and systems with **controlled flocculation behavior**.

2. Applications

- Alkyd- and oil-based primers and midcoats
- Synthetic stoving coatings (anti-corrosion paints)
- Chlorinated rubber and bituminous systems
- Wash primers and shop primers
- Waterborne basecoats and pastes (with hybrid compatibility)
- Anti-sag formulations and bentonite gel pastes

3. Physical and Chemical Properties

Property	Specification
Appearance	Slight Yellowish liquid
Solubility	Compatible with (Iso-butanol / water)
Density (g/cm ³ at 25°C)	~0.94 – 0.97 g/cm ³
pH (1% Solution)	7-9
Active Content	30%
Amine Value	~ 42 – 50 mg KOH/g

4. Key Benefits

- **Superior Pigment Wetting**
Ensures fast wet-out and strong anchoring of TiO₂, iron oxides, and extenders—especially important in high-PVC coatings.
- **Controlled Flocculation**
Supports uniform dispersion and controlled structure without flooding or floating.
- **Anti-Sag Performance**
Creates mild thixotropy to resist pigment settling and surface sagging without high viscosity.
- **Multi-System Compatibility**
Suitable for alkyds, synthetic resins, chlorinated rubber, water-based systems, and bentonite pastes.
- **Improved Storage Stability**
Extends shelf life of dispersions and pastes under tropical conditions.
- **VOC-Moderate & APE-Free**
Formulated to meet growing environmental expectations and eco-label targets in Southeast Asia.

5. Usage Guidelines :

- **Recommended dosage:** 0.5–2.0% based on pigment weight
- **Addition:** Add directly to the grind mix **prior to pigment loading**.

6. Storage and Handling

- Store in tightly sealed containers in cool, dry conditions ($\leq 40\text{ }^{\circ}\text{C}$)
- Avoid prolonged exposure to moisture or direct sunlight
- Shelf-life: 12 months in original packaging
- Use standard PPE during handling

7. Packaging

- 50 kg drums
- 200 kg steel barrels (non-returnable)

For customized packaging options, please contact our sales team.

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