

Technical Data Sheet

Product Name: Nova DA204

High-Performance Dispersant for Solvent-Based Pigment Systems

Version: 05/2025

1. Product Description

Nova DA204 is a next-generation, high-solid dispersing agent formulated for solvent-based coatings and ink applications.

Designed to optimize for pigment anchoring, wetting, and long-term stability in demanding systems.

Nova DA204 excels in stabilizing carbon black, organic pigments, and inorganics, making it ideal for pigment concentrates and high-performance solvent coatings.

2. Applications

- Solvent-based inks and pigment concentrates
- PU, NC, vinyl, and acrylic-based industrial coatings
- Automotive and plastic coatings
- Universal pastes and mill-bases
- Screen and gravure printing inks

3. Physical and Chemical Properties

Property	Specification
Appearance	Yellow liquid
Solubility	Compatible with Aromatics, esters, ketones
Density (g/cm ³ at 25°C)	~0.94 – 0.97 g/cm ³
pH (1% Solution)	7-9
Active Content	60%
Amine Value	~ 45 – 55 mg KOH/g

4. Key Benefits & Market Value

- **Superior Pigment Anchoring**
Exceptional efficiency with black and organic pigments, minimizing re-agglomeration during storage.
- **Gloss and Color Strength Enhancement**
Boosts color intensity and flow, especially in systems with PU, NC, vinyl, and epoxy binders.
- **Broad Solvent Compatibility**
Stable in solvent systems including aromatics (xylene, Solvesso), esters, ketones, and alcohols.
- **High Solids Efficiency**
60% active content reduces additive volume while maintaining performance—ideal for high-solids formulations.
- **Cost Optimization**
Allows up to **20% pigment savings** via dispersion efficiency, and is made from locally sourced materials to reduce lead times and cost.

5. Usage Guidelines :

- **Recommended Dosage:** Inorganic pigments (TiO₂): 5–10 % on pigment , Organic pigments: 20 – 40% on pigment, Carbon black: 60–100% on pigment
- **Incorporation:** Add during pigment dispersion or milling phase

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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