

Technical Data Sheet

Product Name: Nova DA203

High-Solids Dispersant for Solvent-Based Coatings

Version: 03/2025

1. Product Description

Nova DA203 is a high-performance dispersing agent specifically designed for solvent-borne coating systems with high pigment content. It is offering excellent pigment anchoring, broad compatibility

Nova DA203 is especially effective in stabilizing TiO₂ and inorganic pigments without requiring heating or polymerization, enabling efficient, low-viscosity mill-base formulations.

2. Applications

- Solvent-based architectural and industrial coatings
- TiO₂ mill-bases for high-PVC systems
- Alkyd, acrylic, polyurethane (PU), and NC resins
- Red iron oxide and colored primers
- Pigment dispersions for universal solvent pastes

3. Physical and Chemical Properties

Property	Specification
Appearance	Clear to slightly hazy liquid
Solubility	Compatible with aromatic and ester solvents
Density (g/cm ³ at 25°C)	~0.91 – 0.96 g/cm ³
pH (1% Solution)	8-9
Active Content	65%
Acid Value	~ 40 – 45 mg KOH/g

4. Key Benefits & Market Value

- **High Solid Content (~65%)**
Delivers more active dispersant per kilogram, reducing overall dosage needs.
- **Superior Dispersion Stability**
Ensures low-viscosity mill bases, even in systems with heavy pigment or extender load.
- **TiO₂ & Oxide Optimization**
Anchors pigments effectively, increasing pigment yield and coverage—especially in anticorrosive and oxide-based primers.
- **Broad Resin Compatibility**
Performs across PU, NC, alkyd, and acrylics—simplifying inventory in multipurpose plants.
- **VOC-Efficient Performance**
Minimizes solvent demand compared to traditional dispersants with lower actives.
- **Economic Value**
Reduces TiO₂ demand by 8–12%, offering substantial raw material cost savings.

5. Usage Guidelines

- **Recommended Dosage:** 2% – 4% based on total pigment weight
- **Incorporation:** Add during the pigment dispersion phase (grinding)
- **Compatible Solvents:** Xylene, Solvesso 100, butyl acetate, ester solvents
- **Pre-Dilution:** Optional for better flow and ease of addition.

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 steel barrels (non-returnable)

For customized packaging options, please contact our sales team.

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