

Technical Data Sheet

Product Name: Nova FA102

Water-Based High-Performance Defoamer

Version: 03/2025

1. Product Description

Nova FA102 is a high-performance, water-based defoamer specifically developed for foam-sensitive systems such as **high-PVC architectural** paints and waterborne industrial coatings. It delivers **rapid foam collapse** with persistent **long-term defoaming** across **various shear and storage conditions**.

This additive is engineered for **non-bleeding**, **non-floating**, and **recoatable** performance, ensuring defect-free surfaces in architectural and industrial coatings alike.

2. Applications

- High-PVC architectural paints (interior/exterior)
- Waterborne primers and putties
- Filler-rich, high-build coatings
- Industrial emulsion sealers and flat paints
- Low- and medium-gloss waterborne systems prone to air entrapment

3. Physical and Chemical Properties

Property	Specification
Appearance	Pale Yellow
Water Dispersibility	High
Specific Gravity @ 20°C	~ 0.90 – 0.94 g/cm ³
pH (10% solution)	9- 11
Viscosity @25°C	< 1000 cPs

4. Key Benefits & Market Value

- **Strong Initial and Long-Term Defoaming**
Provides immediate foam knockdown during high-speed dispersion and maintains long-lasting foam suppression throughout storage and application.
- **Excellent Compatibility with Water-Based Systems**
Performs reliably across a wide range of resin types including acrylics, styrene-acrylics, vinyl systems, and polyurethane dispersions.
- **Stable Performance in High-PVC Formulations**
Delivers efficient foam control even in formulations with high filler content, commonly used in primers, sealers, and high-build coatings.
- **Non-Floating, Non-Bleeding Behavior**
Remains well-dispersed and stable within the system without surface defects such as gloss loss, haze, or recoat issues.
- **Smooth Application & Film Integrity**
Reduces microfoam and entrapped air, leading to improved leveling, better surface appearance, and reduced risk of craters or pinholes.
- **Easy Incorporation**
Low viscosity and high dispersibility allow quick addition at any stage—grind, let-down, or post-addition—without impacting viscosity or stability.

5. Usage Guidelines

Recommended Dosage: 0.1–0.6% based on total formulation.

Addition Method: Best if split between pigment grind and let-down.

- ✦ **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.

2. Packaging

- **50 kg drums**
- **200 kg barrels (non-returnable containers)**

For customized packaging options, please contact our sales team.

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