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TECHNICAL DATA SHEET

Product Overview

1. Defoaming Agent Characteristics

Formulated with high-purity silicones, polysiloxane nanoparticles, modified silicone oil, high-temperature emulsifiers, fumed silica, dispersants, and stabilizers. The modified components rapidly penetrate high-viscosity molecular chains for efficient bubble rupture. Ideal for epoxy floor coatings, UV inks, screen printing inks, self-leveling paints, and other systems requiring effective defoaming during production and application.

DF 3204 Specifications

Parameter	Specification
Suitable Applications	Epoxy floor coatings, UV inks, screen printing inks, self-leveling paints, etc.
Ionic Character	Non-ionic
Appearance	White liquid
Viscosity	1000–4000 mPa·s
pH Value	6.0–8.0

Note: The values listed in this datasheet describe typical properties only and do not constitute specification limits.

3. Product Features

1. Rapidly penetrates high-viscosity molecular chains for fast defoaming.
2. Prevents pinhole defects after spray application.
3. Provides 24-hour continuous antifoaming action, preventing re-foaming after application.
4. Chemically stable, non-corrosive, non-toxic, free of adverse side effects, non-flammable, and explosion-proof.
5. Enhances coating adhesion, compensating for the inherent adhesion limitations of pure silicone formulations.

4. Applications

The information herein is based on our present knowledge and experience. The information merely describes the properties of our products but no guarantees of properties in the legal sense shall be implied. We recommend testing our products as to their suitability for your envisaged purpose prior to use. No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding any products mentioned herein and data or information set forth, or that such products, data or information may be used without infringing intellectual property rights of third parties. We reserve the right to make any changes according to technological progress or further developments.

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Designed for use in epoxy floor coatings, UV inks, screen printing inks, self-leveling paints, high-build coatings, LED potting compounds, and other systems requiring high antifoaming performance. Effectively eliminates micro-bubbles formed during manufacturing and application while improving coating uniformity.

5. Usage Recommendations

Recommended Dosage:

1. Direct addition during manufacturing or pre-dispersion in carrier materials is recommended. Typical dosage ranges from 0.1% to 0.3% of the total formulation weight to effectively eliminate and suppress foam formation.
2. For paint production, apply 50% of the total dosage prior to grinding/milling, and add the remaining 50% post-grinding.

6. Packaging and Storage

Packaging: Available in 50 kg, 60 kg, 200 kg, and 1000 kg plastic drums. Custom packaging options available upon request.

Storage: Classified as non-hazardous. Non-toxic and non-flammable. Store sealed in a cool, well-ventilated, and dry indoor area. Ensure containers are tightly sealed after each use. Shelf life is 12 months at approximately 25°C.

Transport: Maintain tight sealing during transit. Protect from moisture, strong acids/bases, and rainwater contamination.

7. Safety Precautions

Please refer to the Material Safety Data Sheet (MSDS) for detailed handling, storage, and emergency response information.

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