



OROTAN™ 963 Dispersant

Polyacid Pigment Dispersant for Waterborne Paints

Regional Product Availability

- Asia-Pacific

Description

OROTAN™ 963 Dispersant is a versatile, low-cost, non-foaming, water-soluble polyacid dispersant which offers excellent performance in a wide range of latex paint formulations. It is recommended for low sheen flat through semi-gloss acrylic, styrene-acrylic and vinyl acrylic formulations and is effective over a pH range of 7 to 10 with a wide temperature range.

OROTAN 963 Dispersant is supplied at 35% solids in the ammonia form. It is highly compatible with anionic HASE associative rheology modifiers. OROTAN 963 Dispersant can be used with the ACRY SOL™ DR Rheology Modifier series of products to offer excellent heat age and viscosity stability. It is a very low foaming dispersant and has excellent color acceptance with glycol and water dispersed colorants including hard to disperse pigments such as red iron oxide. OROTAN 963 Dispersant offers excellent water resistance performance versus comparable polyacid dispersants. It should be noted, if maximum water resistance performance is required, it is recommended to formulate with hydrophobic copolymer OROTAN Dispersants.

Key Features

- High efficiency.
- Water resistance.
- Broad formulating range.
- Rheology modifier compatibility.
- Excellent color compatibility.
- Low foaming in mill-base.
- No added formaldehyde or formaldehyde generators*.

Benefits

- Offers low formulated cost.
- Offers the ability to formulate for good scrub resistance and wet adhesion.
- Wide versatility. Can be used in flat through semi-gloss formulations.
- Highly compatible with anionic HASE type rheology modifiers.
- Excellent color acceptance with high reproducibility.

Typical Properties

(These properties are typical but do not constitute specifications).

Property	Typical Values
Appearance	Clear / hazy, colorless to yellow liquid
Solids, by weight, %	35.0
Density, wet, (g/ml)	1.15
pH	6.7
Viscosity (Brookfield LV #1, 60 rpm, 25 °C), cps	< 25
Chemical Type	Anionic polyelectrolyte

* Formaldehyde is a ubiquitous material in our environment. Currently there is no accepted regulatory or industry definition of "Formaldehyde-Free." Therefore, we purposely refrain from using the term "Formaldehyde-Free." However, for OROTAN™ 963 Dispersant, we do not intentionally add Formaldehyde or Formaldehyde generators.

Handling Precautions

Before using this product, consult the Material Safety Data Sheet (MSDS)/Safety Data Sheet (SDS) for details on product hazards, recommended handling precautions and product storage.

Storage

Store products in tightly closed original containers at temperatures recommended on the product label.

Disposal

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Coating Materials Technical Representative for more information.

Chemical Registration

Many countries within the Asia-Pacific require the registration of chemicals, either imported or produced locally, prior to their commercial use. Violation of these regulations may lead to substantial penalties imposed upon the user, the importer or manufacturer, and/or cessation of supply. It is in your interests to ensure that all chemicals used by you are registered. Dow does not supply unregistered products unless permitted under limited sampling procedures as a precursor to registration.

Note on Asia-Pacific Product Line

Product availability and grades vary throughout the countries in Asia-Pacific. Please contact your local Dow Coating Materials representative for further information and samples.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

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