



OROTAN™ 1254 Dispersant

Polyacid Pigment Dispersant for Waterborne Paints

Regional Product Availability

- Asia-Pacific

Description

OROTAN™ 1254 Dispersant is a versatile, low-cost, low-foaming polyacid dispersant that offers excellent performance in a wide range of latex paint formulations. It is recommended for low sheen flats through gloss acrylic, styrene-acrylic and vinyl acrylic formulations. In addition to good efficiency, this polyacid dispersant offers excellent stability and color acceptance even in formulations containing zinc oxide.

OROTAN 1254 Dispersant is supplied at 35% solids and is both ammonia⁽¹⁾ and free of added formaldehyde or formaldehyde generators⁽²⁾. It is highly compatible with anionic HASE associative rheology modifiers. OROTAN 1254 Dispersant offers excellent performance for viscosity stability and color acceptance with ACRY SOL™ DR Rheology Modifier series of products.

Key Features

- Broad formulating range.
- Rheology modifier compatibility.
- Excellent color compatibility.
- Excellent viscosity stability.
- Low foaming in mill-base.
- Ammonia-free⁽¹⁾ and no added formaldehyde or formaldehyde generators⁽²⁾.

Benefits

- Offers low formulated cost.
- Wide versatility. Can be used in flat through semi-gloss formulations.
- Offers compatibility with anionic HASE type rheology modifiers.
- Excellent color acceptance with high reproducibility.
- Offers excellent heat-age and shelf stability of formulated paints.

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 (g/ml), wet	1.2
pH	7.0
Viscosity (Brookfield LV #1, 30 rpm), cps	< 90
Chemical Type	Anionic polyelectrolyte

(1) Manufactured without the use of aqueous ammonia.

(2) 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™ 1254 Dispersant, we do not intentionally add Formaldehyde or Formaldehyde generators.

Dispersing Efficiency

OROTAN 1254 Dispersant should be tested at 0.5% to 1.0% active ingredient based on total pigment weight. It is important to determine the proper level for the finished paint formulation. If a low level is used, the dispersion may be incomplete providing an inadequate grind that will not maximize gloss, hiding or stability. High levels of dispersant may lead to increased water sensitivity

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.

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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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