



## OROTAN™ 681 Dispersant

Hydrophobic Dispersant and Flow Modifier

### Regional Product Availability

- Asia-Pacific

### Description

OROTAN™ 681 Dispersant is a high-performance dispersant for interior and exterior latex paints. OROTAN 681 Dispersant is 35% solids and does not have added formaldehyde or formaldehyde generators\*. This ammonium salt of a hydrophobic copolymer dispersant offers an excellent combination of benefits, including:

- Stability in paints containing zinc oxide and other reactive pigments
- Improved flow and film-build when used with nonionic rheology modifiers
- Excellent gloss potential
- Excellent corrosion resistance

In gloss formulations, including high-gloss acrylic enamels, OROTAN 681 Dispersant offers the full development of the gloss potential of the binder. OROTAN 681 Dispersant is highly compatible with HEUR nonionic rheology modifiers such as ACRY SOL™ RM-995 and ACRY SOL RM-5000 Rheology Modifiers. When used with these thickeners, OROTAN 681 Dispersant offers excellent flow and film-build and offers an alkyd-like feel when brushing.

OROTAN 681 Dispersant is an excellent choice for formulating metal and wood primers and stain and corrosion-resistant topcoats for a variety of substrates.

### Typical Properties

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

Property	Typical Values
Appearance	Clear / hazy, yellow to brown liquid
Solids, by weight, %	35.0%
Density, wet, (g/ml)	1.09
pH	9.5
Viscosity (Brookfield LV #3, 12 rpm, 25 °C), cps	< 12000
Solvent	40 / 60 propylene glycol / water

\* 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™ 681 Dispersant, we do not intentionally add Formaldehyde or Formaldehyde generators.

### Dispersing Efficiency

OROTAN 681 Dispersant should be tested at 3.0% to 5.0% 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 may 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.

## 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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