



Technical Data Sheet

OROTAN™ 681

Dispersant

Description

OROTAN™ 681 product is a hydrophobic acrylic copolymer pigment dispersant. It is a specially-engineered high performance pigment dispersant for interior and exterior coatings. In gloss formulations (including high-gloss acrylic enamels), OROTAN™ 681 facilitates the full development of the gloss potential of the binder. Used in conjunction with nonionic rheology modifiers (especially ACRY SOL™ RM-2020 product), it improves flow and film-build and offers an alkyd-like feel when brushing. Compatibility with ACRY SOL™ HEUR rheology modifier is enhanced. OROTAN™ 681 Dispersant is well suited for formulating metal and wood primers, and stain and corrosion-resistant topcoats for a variety of substrates. OROTAN™ 681 is delivered as ammonium salt.

Applications

- Interior and exterior coatings
- Formulating metal and wood primers

Benefits

- Stain and corrosion resistance
- Can be used in conjunction with rheology modifiers

Physical Properties

Appearance	Liquid, pale yellow to green
Solids (Wt. %)	35
pH	9.5
Density, g/mL	1.090
Viscosity, @ 25°C, cPs	<12000

These properties are typical but should not be considered specifications. For detailed specification rates please consult the product Certificate of Analysis.

Health & Safety Considerations

Safety Data Sheets (SDS) is available from The Dow Chemical Company. SDS is provided to help customers satisfy their own handling, safety and disposal needs and those that may be required by locally applicable health and safety regulations. SDS is updated regularly, therefore, please request and review the most current SDS before handling or using any product. For further questions consult your Dow contact person.

Handling & Storage

OROTAN™ 681 should be stored at temperatures between 1°C and 49°C in tightly sealed containers. Avoid freezing of the material. Local legislation on storage must be followed.

We recommend using the product under safety precautions as described in the SDS. Avoid contact with eyes and skin. Large quantities should be handled in a correctly ventilated area. Material can create slippery conditions. As the product contains water corrosion-resistance equipment should be used for processing. Low shear pumps like diaphragm pumps should be used.

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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Form No. 895-00165-0116