



TAMOL® 165A Dispersant

Description

TAMOL® 165A Dispersant is a high-performance dispersant for latex gloss through flat paint. It is an ammonium salt of a hydrophobic copolymer dispersant which offers enhanced properties to latex paints resulting from improved water resistance properties, including the following:

- Wet Adhesion
- Early Blister Resistance
- Water Spot Resistance
- Corrosion Resistance

Wet adhesion is one of the most important properties for exterior paints. Without wet adhesion, properties such as resistance to dirt, alkali attack, chalking, cracking and flaking are meaningless.

Water causes the paint film to soften and swell. Unless the adhesion to the substrate is strong, blisters will form. Early blistering usually indicates that future adhesion failures are likely for that film. Even though the blisters disappear when the paint film dries, the bond between the paint film and the substrate is weakened.

One of the most important factors for minimizing adhesion loss is binder choice. In addition, the presence of water-sensitive ingredients such as surfactants, thickeners, and dispersants can also strongly influence adhesion. A balance is required to use the minimum level of additives to maintain application, performance and stability of the paint. In fog box tests, TAMOL 165A Dispersant provided notable advantages in early blister and wet adhesion compare to other polyacid and hydrophobic copolymer dispersants. In addition, it showed excellent gloss, corrosion resistance, and color acceptance.

TAMOL 165A Dispersant is highly compatible with HEUR rheology modifiers such as ACRY SOL™ RM-995 and ACRY SOL RM-5000 Rheology Modifiers.

Typical Physical Properties

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

Property	Typical Values
Appearance	Light yellow slightly hazy liquid
Chemical type	Hydrophobic copolymer polyelectrolyte
pH (as shipped)	8.5 to 9.0
Solids, %	21.5
Brookfield Viscosity, cP as shipped	100 to 360
Specific gravity	0.95 - 1.20
Density, lb/gal	8.8
Solvent	water
Bulking Value, gal/lb	0.1133

Dispersing Efficiency

TAMOL 165A Dispersant should be tested at 0.5% to 1.25% 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
Considerations**

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 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.

**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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