

Product Features

PAT-ADD DA 501 is a polymeric wetting and dispersing additive for water borne industrial paints and tinters.

PAT-ADD DA 501 is a highly effective dispersant for organic pigments.

Main benefits are:

- Optimizes color development
- Strong prevention of pigment flocculation, floating, flooding, and pigment settling
- Excellent performance in industrial coatings
- Universal usage for WB industrial paints and pigment concentrates

Physical Characteristics:

Appearance	:	Clear Yellow Liquid
Viscosity @ 25°C/77°F	:	500- 2000 cP
Specific gravity @ 25°C/77°F	:	1.090 – 1.130
Composition	:	Polymer, Uncharged
Polarity	:	Non-ionic
pH	:	5.5 – 6.5
%Solids content (120°C/1 Hr.)	:	80.0 ± 2.0 %

“Physical parameters indicated here in product data sheet are typical properties and not specification limits or range.”

Properties:

Polymeric dispersant PAT-ADD DA 501 shows strong interaction and high affinity for a polar organic pigment surfaces. The multifunctional anchoring moieties in the polymer enable strong adsorption onto low polarity surfaces typical of most organic pigments. Once adsorbed, PAT-ADD DA 501 molecules are unlikely to be desorbed, even in dilute conditions. These unique properties explain the excellent performance of PAT-ADD DA 501 in industrial paints and pigment concentrates.

PAT-ADD DA 501 is free of carboxylic or other charged pigment anchoring groups.

Dosage & Addition

The optimal amount of PAT-ADD DA 501 is system related, but generally between 0.5 to 2.0% as supplied on total weight of paint formulation.

PAT-ADD DA 501

Product Data Sheet

Rev 02

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The product is best added to the mill-base before pigments. For use in pigment concentrates (PC) higher levels are suggested; 3 to 10% PAT-ADD DA 501 on total weight of the PC.

The optimum concentration used depends on individual formulation and conditions and best arrived at with a ladder series for optimization.

End Use Application

PAT-ADD DA 501 is designed for use in waterborne industrial paints; acrylics, stoving systems, 2-pack systems, epoxies, polyesters, etc.

Additionally, PAT-ADD DA 501 is recommended for use as wetting and dispersion stabilizing agents in highly loaded resin-free or resin minimal pigment concentrates. PAT-ADD DA501 is listed on EPA's list of approved inert ingredients hence can also be used for dispersion of pesticides and wood preservatives in agricultural application.

Shelf life

The product has shelf life of 24 months from the date of manufacturing; packed in unopened original containers as shipped by Patcham when stored in frost free warehouse.

Storage and transportation

The product may solidify below +1 °C (33.8 °F). Heat to 20 °C (68 °F) and stir.

Safety and Handling

For information on handling, storage and safety please refer to the information from the Material Safety Data Sheet (SDS).

Packing size

Drum: - 210.0 kgs, Can: - 25.0 kgs, IBCs: - 1000.0 kgs.

Disclaimer:

While every effort is made to provide accurate and complete test results for The PATCHAM ADDITIVES, various data may vary depending upon different raw materials, test procedures and test conditions. The accuracy, reliability, or totality of the results are not guaranteed or warranted in any way. PATCHAM FZC and its representatives disclaim liability of any kind whatsoever, including liability for quality, performance and fitness for a particular purpose arising out of the use, or inability to use the test results.