

PAT-ADD DA 603 LV

Product Data Sheet

Rev 01

April 2018



Product Features

PAT-ADD DA603LV is a low VOC, polymeric, APEO free wetting and dispersing additive for waterborne pigment dispersions, architectural and industrial paints, and printing inks.

PAT-ADD DA603LV is specifically designed for the preparation of concentrated aqueous dispersions of inorganic pigments, hydrophilic organic pigment or hydrophilic carbon black.

Main benefits are:

- Strong dispersing properties for pigments such as iron oxides, hydrophilic carbon black, moderately hydrophilic organic pigments
- High pigment loadings, at low viscosity
- APEO Free
- Low VOC
- Optimizes color development
- Strong contribution to electrostatic pigment stabilization, as well as steric stabilization, minimizing tendency for flocculation in the liquid stage as well as during film formation of waterborne coating and printing systems

Physical Characteristics:

Appearance	:	Clear Yellow liquid
Viscosity @ 25°C/77°F	:	5000 - 10000 cP
Specific gravity @ 25°C/77°F	:	1.060 – 1.100
Composition	:	Polymeric, anionic surface active compound
%Solids content (120°C/1 Hr.)	:	54.0 ± 3.0 %

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

Properties:

Polymeric dispersant PAT-ADD DA 603LV shows strong dispersion activity with hydrophilic and moderately hydrophobic pigments and extenders, reducing mill base viscosity, improving color development, storage stability, and gloss. Although PAT-ADD DA 603LV is primarily designed for use in pigment concentrates, colorants, architectural as well as industrial waterborne paints, it is also useful in other waterborne systems; inks and adhesives.

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Dosage & Addition

The optimal amount of PAT-ADD DA 603LV is system related, but generally between 0.5 and 2.0%, on the total weight of coating or ink formulation. The dosage is related to the specific pigment's surface area, with organic pigments and high surface carbon blacks at the higher side of the recommendation.

The product is best added to the mill-base before the pigments. For use in pigment concentrates (PC) higher levels are suggested; 3 to 10% Pat-Add DA 603LV on total weight of the PC

The optimum concentration to be used depends on the individual formulation and conditions and best determined with a ladder study..

End Use Application

PAT-ADD DA 603 LV is designed for use in a pigment concentrates, colorants, architectural and industrial waterborne paints; it should also be considered for water borne ink formulations.

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: - 200.0 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.