PAT-ADD DA 420

Product Data Sheet

Rev 01 April 2018

PATCHAM
A step towards sustainable chemistry

Product Features

PAT-ADD DA 420 is a low foaming polymeric wetting and dispersing additive for waterborne paints, pigment concentrates. PAT-ADD DA 420 is a highly effective dispersant and stabilizer for inorganic and polar pigments in aqueous systems.

Main benefits are:

- Enables high pigment loadings, minimizes mill-base viscosity, optimizes color development
- Low foaming
- Strong prevention of pigment flocculation, floating, flooding, and pigment settling
- Designed for waterborne industrial coatings

Physical Characteristics:

Appearance	:	Clear Yellow liquid
Viscosity @ 25°C	:	3000 - 5000 cPs
Specific gravity @ 25°C	:	1.030 – 1.070
Polarity	:	electro neutral
pH	:	8.5 – 9.5
Composition	:	polyelectrolyte
%Solids content(120°C/1hr)	:	45.0 - 51.0%

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

Properties:

Polymeric dispersant PAT-ADD DA 420 exhibits strong attraction and electrostatic stabilization of dispersed particles. PAT-ADD DA 420 typically reduces the viscosity of the mill-base, enabling highest pigment loadings.

PAT-ADD DA 420 is designed for use in a wide range of waterborne industrial paints, such as acrylics, stoving systems, 2-pack systems, epoxies, polyesters etc.

PAT-ADD DA 420 is recommended as dispersing agent in highly loaded pigment concentrates.

In instances where PAT-ADD DA 420 offers limited surface wetting; we recommend PAT-ADD DA 420 be used in conjunction with strong surface wetting agents, such as PAT-ADD DA 501 or PAT-ADD DA 401.

Dosage & Addition

The optimal amount of PAT-ADD DA 420 is system related, but is generally between 0,5 and 2,0% on the total weight of paint formulation.

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The product is best added to the mill-base before pigments.
For pigment concentrates (PC) higher levels are suggested, 1 to 6% PAT-ADD DA 420 on total weight of the PC

The optimum concentration depends on the individual formulation and conditions and is best determined experimentally in a ladder study.

End Use Application

PAT-ADD DA 420 is recommended as dispersing additive in highly loaded pigment concentrates.

Shelf life

The product has shelf life of 24 months from the date of manufacturing; packed in un opened 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.

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