

# PAT-ADD DA 825

## Product Data Sheet

Rev 01

May 2021



### Product Features

PAT-ADD DA 825 is a key polymeric pigment wetting and dispersing agent for use in waterborne and universal pigment dispersions.

The product is solvent-free and finds application in architectural paint systems, in water-borne and universal colorants as well as in inks and dispersion formulations similar to these.

#### Main benefits are:

- Versatile in application towards main pigments offers anionic as well as cationic anchoring moieties for optimal adhesion and long-term stability.
- Single component for formulation of multiple aqueous colorants and tinters
- Provides colorant compatibility in waterborne and solvent-borne paint bases.
- Multi-functional adsorption reactivity, with wide range of (pigment) substrates
- APE-free; compatible with main humectants

### Physical Characteristics:

<b>Appearance</b>	: Amber colored liquid
<b>Viscosity @ 25°C/77°F</b>	: <5000 cP
<b>Specific gravity @ 25°C/77°F</b>	: 1.020-1.060
<b>Amine value (Approx.)</b>	: 15.0 mg. of KOH/gm.
<b>Acid value (Approx.)</b>	: 32.0 mg. of KOH/gm.
<b>Composition</b>	: Polymer with unsaturated groups, Gemini structure
<b>Solids content (120°C/1hr)</b>	: 98 – 100 %

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

### Properties:

PAT-ADD DA 825 shows superior wetting and dispersion properties onto main pigments and extenders, as typically used in colorant and tinting systems. The unique composition, the presence of multiple adsorption functionalities like unsaturated moieties, acid and amine groups provide optimal conditions for strong affinity onto organic pigments, inorganic pigments, and main extenders.

This multi-substrate activity explains its perfect performance, for instance when used in colorants, for which optimal compatibility of the ingredients under various ratios and paint formulas is essential.

Pat-Add DA 825 is used in base paints to improve acceptance of universal colorant, as part of a tintometric system.

The product contributes to enhanced steric stabilization against pigment re-flocculation or re-agglomeration.

### Dosage & Addition

PAT-ADD DA 825 is preferably added to the liquid aqueous phase of the mill-base, prior to pigment and extenders and is subsequently neutralized with alkali (diluted NaOH, ammonia or amine), by which optimal stage of water solubility is reached.

The amount of PAT-ADD DA 825 to be used is application related, but it is generally between 1.5 - 5.0% on total formulation, for use in colorants or pigment dispersions. Used in paints, typically a dosage of 0,2-0,6% on total paint formula is needed for improvement of colorant acceptance.

The optimum concentration to be used depends on the individual requirements and conditions and is best determined experimentally.

### End Use Application

PAT-ADD DA 825 is designed for use in waterborne and in universal colorants and tinters, as used for tinting purposes of architectural paints; furthermore for dispersing pigments for application in inks or similar systems.

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**PATCHAM**

*A step towards sustainable chemistry*

### Shelf life

The product has shelf life of 24 months from the date of manufacturing; in an opened original container as supplied by Patcham when stored in a frost-free warehouse.

### Storage, transportation

The product may solidify below 5°C (41 °F). Heat the material to 25-35 °C (77-95°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 kgs / 440 lbs., Pail: - 25 kgs / 55 lbs.

#### **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.*