

Product Features

PAT-ADD DA 3051 is a polymeric dispersing agent for formulating industrial multi-pigment systems and manufactured applying co-grinding process.

PAT-ADD DA 3051 is compatible in a wide range of binder systems as typically used for industrial paints, incl. main solvent borne coil coating formulations.

Main benefits are:

- Provides excellent spray dilution stability, minimizing risk of paint separation
- Provides superior pigment dispersion stability, preventing pigment flocculation
- Applicable for co-grinding milling procedures as well as for pigment concentrates
- Preventing pigment floatation. Optimizing DOI, gloss
- Provides optimal interaction with synergists like Pat-Add DA 2650

Physical Characteristics:

Appearance	:	Clear to slight hazy colorless to pale yellow liquid
Viscosity @ 25°C/77°F	:	<200 cP
Specific gravity @ 25°C/77°F	:	0.910 – 0.960
Amine value (approx.)	:	4 - 6 mg of KOH/gm
Composition	:	polymeric polyurethane with cationic pigment affinic groups
Solvents	:	1-methoxy-2-propyl acetate/Xylene
%Solids content (120°C/1hr)	:	29 – 31%

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

Properties:

PAT-ADD DA 3051 is a polymeric dispersing agent showing strong stabilization performance onto a wide range of organic and inorganic pigments as dispersed in an apolar medium, like in xylene dissolved binders.

PAT-ADD DA 3051 contributes to best dispersion stability, low mill-base viscosity and high coloristic strength. PAT-ADD DA 3051 is most suitable for co-grinding procedures, i.e. in milling processes where a mixture of various organic and/or inorganic pigments is being dispersed instantly.

PAT-ADD DA 3051

Product Data Sheet

Rev 02

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Dosage & Addition

The optimal amount of PAT-ADD DA 3051 to be used is system related, but generally is between 0.5 and 3.0% calculated on mill-base, if used in co-grinding process. For pigment concentrates, a dosage in between 5 and 12% PAT-ADD DA 3051, calculated on the total weight of pigment concentrate, is considered as being a good starting point. The optimum level is best determined experimentally, for instance by a ladder study using various dosages and checking the effect on main paint features. The product is typically added to the mill-base prior to the pigment addition.

End Use Application

PAT-ADD DA3051 recommended for industrial and automotive solvent-borne paints such like 2-pack PUR, baking systems such as based on alkyds, PE, acrylics systems.

Shelf life

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

Storage and transportation

Separation or turbidity may occur upon storage, warm the material up to 30 – 40°C and stir. It will not affect the performance of the product.

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: - 185.0 kgs, Can: -25.0 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.