

PAT-ADD LE 1023

Product Data Sheet

Rev 00

January 2023



Product Features

PAT-ADD LE 1023 is a highly concentrated coating-surface modifier, with wide range compatibility. The additive provides excellent levelling, RIQ, slip and mar resistance in waterborne, solvent-based, and solvent-free systems.

Main benefits are:

- Provides optimal leveling, for superior film appearance, RIQ, DOI, haze readings.
- in waterborne, solvent-borne, and solvent-free paints and varnishes!
- Additionally: supports effective slip and mar resistance
- Soluble in water, methanol, iso-propanol, and xylene. Limited solubility in mineral spirits

Physical Characteristics:

Appearance	: Clear Colorless Liquid
Viscosity @ 25°C/77°F	: 50 - 1000 cP
Specific gravity @ 25°C/77°F	: 1.020 - 1.060
Composition	: Polyether modified Polysiloxane
Solvents	: Solvent Free
Active content	: 100%

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

Properties:

PAT-ADD LE 1023 is a highly efficient film surface tension modifier, effective at low dosages. It provides excellent levelling and surface smoothness, resulting in increased surface slip, mar and scratch resistance.

PAT-ADD LE 1023 demonstrates excellent contribution to optimizing film appearance, such as RIQ, DOI, reducing risk of cratering. Furthermore, improves film substrate wetting onto critical substrates such as improperly cleaned substrates and low surface energy substrates.

PAT-ADD LE 1023 is suitable for pigmented as well as clear coatings and varnishes.

Dosage & Addition

The optimal amount of PAT-ADD LE 1023 is system and application related; in order to maintain proper, recoat, excessive levels should be avoided. PAT-ADD LE 1023 can be added to the formulation during any stage of paint/ ink production.

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The following dosages, calculated on the total weight of the formulation are recommended:

-slip, mar: 0.02 to 0.2%

-leveling: typically, 0.05 to 0.5% show optimal performance; in exceptional cases, up to 1,0%

-printing inks and overprint varnishes: 0.05 to 0.8%. We highly recommended the determination of performance, optimal dosage and compatibility be made empirically using test conditions that replicate actual field conditions.

The optimum concentration depends on the individual formulation and conditions.

End Use Application

PAT-ADD LE 1023 is universally used in waterborne, organic solvent-borne and solvent free industrial coatings, stoving enamels, and printing inks.

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

Should be stored in a cool dry place.

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.

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.