

Liquid Antisettling Agent for Solvent-Borne Systems

GENERAL INFORMATION

M-P-A[®] 2000 X is an easily incorporated, highly efficient organic anti-settling and sag control additive supplied as a pourable dispersion in xylene.

PHYSICAL PROPERTIES

Composition	organic compound
Color / Form	translucent white, liquid
Density	0.88 g / cm ³
Solvent	xylene
Non-volatile content	20 %
Flash point (closed cup)	25°C (77 °F)

APPLICATIONS

Rheological additive for solvent-borne systems. It is also an effective sag control additive in high-polarity formulations and in the presence of high levels of pigment dispersion media.

NOTE: M-P-A[®] 2000 X contains ~ 0.8% water and may cause gassing when used in coatings containing reactive metals, e.g. zinc rich systems. If you have a water sensitive application, we recommend the use of M-P-A[®] 4020 X.

KEY PROPERTIES

- liquid – easy to handle
- easily and quickly dispersed in high speed disc impellers or other high-shear equipment, e.g. pearl mills
- minimum activation temperatures range from 40°C to 50°C depending on system
- cost-efficient from low levels of addition
- no significant effect on system viscosity
- good viscosity stability of system in storage

- excellent antisettling performance in low-viscosity conditions, e.g. in dip tanks, spray tanks and lines, bulk storage units
- improved sag control with good levelling

INCORPORATION

Being a liquid additive, M-P-A[®] 2000 X is more readily and rapidly incorporated than powder or pregel anti-settling agents. For proper activation, the additive requires heat and shear and a minimum dwell time of 15 to 30 minutes. High speed disc impellers, pearl mills, sand and ball mills, triple-roll mills, etc. are suitable dispersing equipment.

M-P-A[®] 2000 X anti-settling additive must be present during the pigment dispersion stage, preferably premixed in the binder/solvent blend before the addition of other mill-base components.

When M-P-A[®] 2000 X anti-settling additive is used in combination with other rheological additives, the proper order of addition is of importance.

THIXATROL[®] ST or the various BENTONE[®] additive grades must be thoroughly dispersed and, where necessary, activated with a chemical activator prior to the addition of M-P-A[®] 2000 X. Further details on incorporation are given in the various product data sheets and in the Elementis Specialties Rheology Handbook.

Maximum efficiency requires the following minimum temperatures and a dwell time of at least 15 minutes:

Solvent	minimum incorporation temperature
High polarity, aromatic or oxygenated solvents	43 °C / 110 °F
Lower polarity, mixed aromatic/ aliphatic	54 °C / 130 °F

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LEVELS OF USE

The optimum M-P-A[®] 2000 X rheological additive level will depend on the coating system and may vary between 1.0 % and 2.0 % by weight. In some systems as little as 0.5 - 0.8 % by weight will be sufficient (as supplied and related to total weight of system).

HEALTH AND SAFETY DATA

Before using this product please consult our Material Safety Data Sheet (MSDS) for information on safe handling and storage.

STORAGE RECOMMENDATIONS

- Stored in a cool, dry location.
- Stored above 40°F (4°C).
- Keep partially used container well sealed to prevent solvent loss.

SHELF LIFE

M-P-A[®] 2000 X has a shelf life of 2 (two) years from date of manufacture.

QUALITY ASSURANCE

Since 1992 the company is a holder of the ISO 9001/ ISO 9002 certificates, which guarantees that all operations are conducted according to the stipulated standards.

Elementis Specialties, Asia

USA Head Office
Elementis Specialties, Inc.
329 Wyckoffs Mill Road
Hightstown, NJ 08520, USA
Tel.: +1 609 443 2500
Fax.: +1 609 443 2422

Asia Head Office China
Deuchem (Shanghai) Chemical Co., Ltd.
99, Lianyang Road, Songjiang Industrial
Zone, Shanghai, China 201613
Tel.: +86 21 57740348
Fax.: +86 21 57743563

Taiwan
Deuchem Co., Ltd.
92, Kuang-Fu North Road, Hsinchu
Industrial Park, Hukou, Hsinchu, Taiwan
Tel.: +886 3 5984035
Fax.: +886 3 5983301

Malaysia
Elementis Specialties Inc.
Lot PT 55, 64 & 65,
Jalan Hulu Tinggi 26/6, Seksyen 26,
40400 Shah Alam, Selangor Darul Ehsan,
Malaysia
Tel.: +603 5191 9979
Fax.: +603 5191 6811