

M-P-A[®] 14

Anti-Settling Agent

GENERAL INFORMATION

M-P-A 14 anti-settling agent is a special montmorillonite clay that has been organically modified. It has the distinctive feature of preventing hard settling of pigments in organic paint systems without appreciably contributing to an increase in apparent (package) viscosity.

CHEMICAL & PHYSICAL PROPERTIES

Composition	organic derivative of a special montmorillonite clay
Colour / Form	light Tan / Finely divided powder
Density	2.3 gm/cm ³ / 19.2 lb/U.S. gal.
Bulking Value	0.0521 (U.S. gal./lb.)

These are typical properties not to be used for specification purposes.

APPLICATIONS

- Acrylic lacquers
- Printing inks
- Aerosol applications
- Trade Sales paints
- Anti-fouling paints
- Wood stains
- Industrial finishes

KEY PROPERTIES

- Imparts pigment suspension, preventing hard settling of pigments and fillers
- Possesses excellent viscosity stability
- Useful over a wide range of polar and non-polar organic solvents
- Does not appreciably increase the apparent (package) viscosity of the system.
- Helps prevent floating and separation of pigments in mixed pigment systems

INCORPORATION

General

M-P-A 14 additive can be incorporated into organic coating systems using any equipment suitable for the proper dispersion of pigments.

High Speed Dispersion

The optimum high speed dispersion conditions for pigments are also optimum for M-P-A 14 additive. In addition, M-P-A 14 additive must be activated chemically while under the influence of dispersive forces and ideally without the interference of surface active agents (which may interfere with the activation process).

For optimum M-P-A 14 additive development we recommend the following:

Add in the order listed:

1. Solvent/Resin (properly balanced) mix
2. M-P-A 14 anti-settling agent
3. mix 5 minutes
4. Polar activator
5. mix 5 minutes
6. Pigments
7. disperse

Note: If surface active agents are essential, add shortly after dispersion has begun. It is essential that M-P-A 14 additive be subjected to shear forces (to produce full gel development) prior to possible interference from the surface active agent.

High Shear Equipment (ball mill, roller mill, etc)

Predampen the M-P-A 14 anti-settling agent, with the required level and type of polar additive.

Polar Additives

Use one of the additives below to obtain full development of the M-P-A 14 additive rheology.

Types of Polar Additives	Amount based on the weight dry M-P-A 14 additive
Methanol/H ₂ O (95/5%)	33%
Propylene Carbonate (100%)	33%
Propylene Carbonate/ H ₂ O (95/5%)	33%
Ethanol/H ₂ O (95/5%)	50%
Acetone (100%)	60%

continued...

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LEVELS OF USE

The quantity of M-P-A 14 additive suggested depends upon the type of organic systems, the degree of pigment suspension required, and the type of incorporation equipment used. For example, 4 to 5 pounds of M-P-A 14 additive per 100 gallons would be recommended for an aerosol spray formulation or industrial spray primer.

HEALTH AND SAFETY

Before using this product please consult our Safety Data Sheet (SDS) for information on safe handling and storage. The SDS can be found on the company website.

STORAGE RECOMMENDATIONS

Store in a cool, dry location.

SHELF LIFE

M-P-A 14 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.

NOTE: The information herein is currently believed to be accurate. We do not guarantee its accuracy. Purchasers shall not rely on statements herein when purchasing any products. Purchasers should make their own investigations to determine if such products are suitable for a particular use. The products discussed are sold without warranty, express or implied, including a warranty of merchantability and fitness for use. Purchasers will be subject to a separate agreement which will not incorporate this document.

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V01 Sep. 2018

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