

M-P-A[®] 4020 BA

Liquid HAPS-free Antisettling Agent

GENERAL INFORMATION

M P-A 4020 BA HAPS-free and moisture free additive designed for highly efficient control of pigment settling in HAPS-free industrial finishes.

CHEMICAL & PHYSICAL PROPERTIES

Composition	proprietary organic rheological Additive
Color / Form	opaque white / structured liquid
Density	0.925 g/cm ³ 7.71 (lb/U.S. gal./lb.)
Solvent	n-butyl acetate / mixed esters
Non-Volatile	20%
Bulking Value	0.130 (U.S. gal./lb.)

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

APPLICATIONS

- **M P-A 4020 BA** additive is the most effective HAPS-free ant-settling agent for industrial or maintenance solvent based coatings. It prevents the formation of difficult to disperse hard packed pigment cake during use and storage in coatings, where the use of HAPS-free carrier is suitable.
- **M P-A 4020 BA** additive contributes little to the apparent package viscosity of the coating, while providing pigment antisettling. Where a higher viscosity is desired, it is advantageous to use **M P-A 4020 BA** additive in combination with other Elementis rheological additives such as BENTONE 27, BENTONE 57 or BENTONE 38. Sufficient BENTONE rheological additive should be used to give the required viscosity, and **M P-A 4020 BA** additive added until the desired pigment settling control is achieved.

KEY PROPERTIES

- HAPS-free
- Moisture-free
- Effective pigment suspension in systems containing aromatic, oxygenated and HAPS-free solvents
- Little or no effect on apparent (package) viscosity
- Low activation temperature
- Pumpable, pourable liquid
- Easy dispersion on high speed dispersers
- Maintains excellent viscosity stability in storage

INCORPORATION

Moderate shear conditions and heat are both required for the proper dispersion and activation of **M P-A 4020 BA** additive. Rapid dispersion can be achieved with high speed (Cowles type) mixers.

M P-A 4020 BA additive should be present during the dispersion stage, preferably premixed in the vehicle/solvent blend before the addition of the other mill base components. This pre-mixing step is more rapid than with other antisettling agents because of its liquid consistency.

When using **M P-A 4020 BA** additive in combination with a thixotropic rheological additive, the following order of addition is recommended:

1. Resin/Solvent
2. BENTONE Rheological Additive Mix
3. Polar Activator
4. **M P-A 4020 BA** antisettling Agent
5. Remainder of Mill Base Grind

This procedure allows the powdered thixotropic rheological additives to be fully wetted out and activated, so as to achieve their full efficiency.

There is no upper processing temperature limit for **M-P-A 4020 BA** additive. However, for optimum antisettling properties the following minimum temperatures should be observed.

continued...

M-P-A[®] 4020 BA

Solvent

HAPS-free, High Polarity,
Aromatic or Oxygenated Solvents

Minimum* Processing Temperature

110 °F (43 °C)

*Once the appropriate temperature is reached, dispersion must continue at/or above the minimum processing temperature for at least 15 - 20 minutes.

LEVELS OF USE

The optimum level of usage will vary depending on the system, the type of pigmentation and the degree of antissettling protection required. In an industrial coating, a typical level is 2.0% **M P-A 4020 BA** additive by weight in the coating (20 pounds per hundred gallons).

We suggest that a concentration ladder series be run to establish the optimum loading for a system to achieve maximum economy. For all types of M-P-A products, including **M P-A 4020 BA**, additive settling control at first increases with concentration but then levels off as more is added. Beyond that point, no performance advantage is gained from the additional material.

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.

Store above 40 °F (4 °C).

Keep partially used container well sealed to prevent solvent loss.

SHELF LIFE

M-P-A 4020 BA 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.

© Copyright 2018, Elementis Specialties, Inc. All rights reserved. Copying and/or downloading of this document or information therein for republication is not allowed unless prior written agreement is obtained from Elementis Specialties, Inc.

© Trademark of Elementis Specialties, Inc.

V01 Aug. 2018

North America

Elementis
469 Old Trenton Road
East Windsor
NJ 08512, USA
Tel.: +1 609 443 2500
Fax: +1 609 443 2422

Europe

Elementis UK Ltd.
c/o Elementis GmbH
Stolberger Strasse 370
50933 Cologne, Germany
Tel.: +49 221 2923 2066
Fax: +49 221 2923 2011

Asia

Deuchem (Shanghai) Chemical Co., Ltd.
99, Lianyang Road
Songjiang Industrial Zone
Shanghai, China 201613
Tel.: +86 21 5774 0348
Fax: +86 21 5774 3563