

Rheological Additive for Low to Intermediate Polarity Organic Systems

GENERAL INFORMATION

BENTONE® 54 is an organic derivative of a bentonite clay. This rheological additive is designed for low to intermediate polarity organic systems.

PHYSICAL PROPERTIES

Composition	organic derivative of a bentonite clay
Color / Form	light cream, finely divided powder
Moisture	max. 3%

APPLICATIONS

- Adhesives
- Anti-corrosive paints
- High-build systems
- Industrial finishes
- Interior and exterior house paints including do-it-yourself paints
- Primers, undercoats, fillers
- Printing inks
- Road marking paints
- Underbody sealants and sound-absorbing compounds
- Wood preservatives and finishing systems

KEY PROPERTIES

Advantages of BENTONE 54:

- increases viscosity
- provides thixotropy
- prevents pigment settling during storage
- improves flow and leveling
- controls sagging on vertical surfaces and penetration on porous substrates
- prevents syneresis in thixotropic systems

INCORPORATION

BENTONE® 54 is an organoclay with improved dispersibility that increases flexibility in the paint manufacturing process. It is generally recommended to be added during the milling phase of pigments and extenders. It performs well under standard high-shear dispersion conditions and often benefits from the addition of a polar activator. The choice of polar activator will depend strongly on the chemistry of the system. Examples of polar activators are ethanol/water [95/5], methanol/water [95/5] or propylene carbonate.

It is also possible to incorporate BENTONE® 54 into a system as a standard pre-gel with a concentration of 5-10 % by weight.

LEVELS OF USE

Recommended use level of BENTONE 54

The level required depends on the system in which BENTONE® 54 is to be used. For decorative and industrial paints typical levels are between 0.2 and 1.0 % (dry) BENTONE® 54 based on total system weight.

HEALTH AND SAFETY DATA

Before using this product please consult our Material Safety Data Sheet (MSDS) for information on safe handling and storage. MSDS' can be found on the company website at www.elementis-specialties.com.

STORAGE RECOMMENDATIONS

Store in a cool, dry location.

SHELF LIFE

BENTONE® 54 rheological additive has a shelf life of 4 (four) years from date of manufacture.

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QUALITY ASSURANCE

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

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