

TIXOGEL MP 100

Maximum Performance organoclay

Product Data

Special Features and Benefits

It is a self-activating and easily dispersible thixotropic agent. TIXOGEL MP 100 is optimized for low to medium polarity solvent-based coating systems.

TIXOGEL MP 100 is a new generation high performance organoclay which exhibits excellent rheology and ease of dispersion. A prime area of effectiveness is in sag control as TIXOGEL MP 100 is very effective in building up low shear viscosity. Due to its high efficiency TIXOGEL MP 100 can often be utilized at lower loading levels than competitive self-activating organoclays. TIXOGEL MP 100 is designed as an easy-to-disperse, self-activating rheological additive for unpolar to low polarity solvent-based coating systems.

TIXOGEL MP 100 can be added to the pigment grind or to the finished product to adjust viscosity. TIXOGEL MP 100 needs no polar activator.

Recommended Use

Alkyds, processed oils, epoxy esters and oil-modified urethanes are all suitable for TIXOGEL MP 100. TIXOGEL MP 100 is not recommended for oxygenated solvent systems nor for use in 100 % raw oil systems such as stains.

Suitable Solvents / Resins

Rule 66 mineral spirits, VM&P naphtha, hi-flash naphtha, xylene and toluene. Mixtures of aliphatic and aromatic solvents are also suitable for TIXOGEL MP 100 use.

Composition

organophilic smectite

Typical Properties

The values indicated in this data sheet describe typical properties and do not constitute specification limits.

Form:	free flowing powder
Colour:	cream
Specific weight:	approx. 1,4 g/cm ³
Bulk density:	370-510 g/l
Primary particle size at complete dispersion:	1-5 µm
Moisture content:	max. 3 %

Incorporation and Processing Instructions

TIXOGEL MP 100 can be effectively utilized in the pigment grind in aliphatic solvents or systems containing 100% aromatic solvent. When incorporated into a system containing a mixture of aliphatic and aromatic solvents, TIXOGEL MP 100 should be added to the solvent with the lowest Kauri butanol value.

When post-adding TIXOGEL MP 100, care must be exercised to insure proper dispersion. Use as a post-additive in extremely hot or highly aromatic systems may lead to premature wetting resulting in poor dispersion. As a general rule, add TIXOGEL MP 100 to systems at or below 50 °C.

It can be post-added, but this should be done only under a high-speed disperser.

TIXOGEL MP 100 can be used with processed oil, such as polymerized or blown oils. The use of raw oils in combination with resins will weaken the gel structure. TIXOGEL MP 100 is not recommended for systems based exclusively on raw oils.

The effectiveness is optimum in aliphatic systems.

Special Note

Wetting agents should be added only after the TIXOGEL MP 100 has been activated.

Recommended Levels

TIXOGEL MP 100 is typically used at levels of 0.2 to 0.8 % in paint.

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

Storage and Transportation

Two years if stored dry in unopened, original packing at temperatures between 0 °C and 30 °C.

BYK-Chemie GmbH

P.O. Box 10 02 45
46462 Wesel
Germany
Tel +49 281 670-0
Fax +49 281 65735

info@byk.com
www.byk.com/additives

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