



TECHNICAL DATA SHEET

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RheoFal 101

Organoclay Additive for low to medium polarity solvent based coating systems

DESCRIPTION

RheoFal 101 is an easy dispersing organically modified bentonite clay. It is especially suited for low to medium polarity solvent based paints and coatings. It provides excellent viscosity build, sag control and anti-settling properties in these coating systems.

PRODUCT FEATURES

Easy dispersing
Cost effective
Add as a powder to the grind stage
Requires no polar activator
Provides excellent shelf and heat aged viscosity stability
Provides excellent long-term anti-settling resistance

TYPICAL PROPERTIES

Chemical Composition	Quaternary ammonium bentonite compound
Appearance	Cream coloured, powder
Particle Size	Minimum 98%, through 200 Mesh Sieve
Density	1.47 g/cm ³

APPLICATION & USE

RheoFal 101 is an easy to disperse replacement for both conventional polar activated and self activated bentonite organoclays. A direct weight or one-for-one replacement with RheoFal 101 is recommended to start, with adjustments if necessary based on the initial

RheoFal 101 works best with resin systems using solvents with low kauri butanol values e.g. mineral spirits and other aliphatic hydrocarbons. It can also be used with mixtures of aliphatic and aromatic solvents. RheoFal 101 is not recommended for use in coatings using oxygenated solvents. Examples of suitable coating systems include:

- Architectural alkyd paints
- Anti-corrosive paints
- Primers, fillers, undercoats
- Traffic Paints
- Wood Stains
- Printing Inks

RheoFal 101 does not require chemical activation in low to medium polarity solvent systems. It can be incorporated as a powder in the pigment grind under high shear. It can also be added to the letdown for post-correction. However when RheoFal 101 is added to the letdown a minimum tip speed of 4 to 5 m/s is required along with sufficient mixing time, appropriate for the tank volume and coating viscosity. Incorporation using high speed dispersion is recommended for maximum efficiency.

Typical usage levels range from 0.2 to 2.0% of total weight of the system and will depend on the application parameters i.e. degree of pigment settling, sag control or viscosity increase required.

In systems where dearomatized solvents such as D40 or D60 are used, RheoFal 101 should be activated with a polar solvent or additive for optimum performance.

RheoFal 101 is effective only in binder systems and will not work with solvent only systems or 100% raw oils or greases.

For safety information, handling and storage instructions, consult the safety data sheet.

DISCLAIMER

The information given and the recommendations made herein are based on our research and are believed to be accurate but no guarantee of their accuracy is made. In every case, we urge and recommend purchasers, before using any product in full-scale production, to make their own tests to determine to their own satisfaction whether the product is of acceptable quality and is suitable for their particular purposes under their own operating conditions. The products discussed herein are sold without any warranty as to merchantability or fitness for a particular purpose or any other warranty, expressed or implied. No representative of ours has any authority to waive or change the foregoing. Nothing contained herein shall be construed to imply the non-existence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

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Revision

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