

BENGEL® 818

A Easy Dispersible Rheological Additive for Low to Medium Polarity Solvent Based Systems

GENERAL INFORMATION

BENGEL 818 demonstrates excellent dispersibility compared to conventional organoclay. It provides good thixotropy, sag resistance, and anti settling properties.

It is an easy dispersible grade, will provide great flexibility in manufacturing process.

It is recommended to be used in systems like air dry long oil alkyd enamel, polyurethane sanding sealer, general industrial maintenance and aliphatic systems.

CHEMICAL & PHYSICAL PROPERTIES

| | |
|--------------|--|
| Composition | organic derivative of a bentonite clay |
| Color | milky white to slight grey |
| Form | fine powder |
| Moisture | 3.0 % maximum |
| Bulk Density | 0.40 g / cm ³ |

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

APPLICATIONS

It is an efficient replacement for **BENGEL 434**, in aliphatic systems, especially for applications where the super dispersibility attribute should be utilized as advantage.

When non-aliphatic solvent presents, the effectiveness of **BENGEL 818** should be evaluated. Post-add is not recommended when systems contain primarily aromatic solvents.

A combination application with M-P-A additives will provide great synergies in anti settling effect.

BENGEL 818 demonstrates excellent anti settling performance in sanding sealer formulation.

In long oil alkyd, it demonstrates superior thixotropy and sag resistance performance.

KEY PROPERTIES

Advantages of **BENGEL 818**

- Easy to incorporate, even at less than optimum dispersion conditions
- Simplifies manufacturing
- Eliminate pregels
- Eliminates need of polar activator
- Provides good sag control and pigment suspension
- Consistent development of efficiency
- Cost effective

INCORPORATION

BENGEL 818 is a super dispersible grade that increases flexibility in paint manufacturing. In view of its ease of dispersibility, it is largely recommended to be added in-situ. It is also possible to add at any point of manufacturing. It performs well under less than optimum dispersion condition. A polar activator is not required.

There is generally no need to pregel **BENGEL 818**. However, if desired, may be due to equipment constrain, it can be used with the pregel technique. Under less than optimum conditions of incorporation, it greatly improves paint performance as compared to conventional organoclay.

General paint making equipment, e.g. ball mills, media mills, sand mills would provide sufficient shear to effectively incorporate **BENGEL 818**

For improves performance in very low polarity solvency system, a polar activator is recommended.

LEVELS OF USE

Use levels are typically 0.2 to 2.0 % by weight of the system. The optimum level to be used is very much dependent on the formulation, efficiency of incorporation technique and equipment. A study to determine the optimum level is always encouraged.

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HANDLING 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

BENGEL 818 rheological additive has a shelf life of 4 (four) 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.

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