

Rheological additives

DE01

Features and Advantages:

DE01 is a highly dispersible, synthetic flake silicate clay-based rheological additive that has undergone a refining process.

1. Excellent dispersibility
2. Provides low shear viscosity
3. Can be used to produce high-concentration pre-set slurries with a content of up to 14 per cent that remain pourable
4. Excellent water separation control
5. Excellent anti-splatter properties
6. Improves resistance to sagging and suspension properties
7. Excellent aluminium powder orientation and alignment properties
8. Minimal impact on gloss
9. Excellent spray atomisation properties

Product Specifications:

Appearance	White powder
Particle Size	95% passes through a 200-mesh sieve
Density	2.60 g/cm ³
Composition	Synthetic flake silicate clay

Application fields:

Water-based container coatings, rail transport coatings, water-based construction machinery coatings, water-based zinc-rich epoxy primers, water-based inks/pigment pastes, water-based wood coatings, water-based steel structure coatings, water-based adhesives, water treatment, etc.

Recommended dosage:

The typical dosage is 0.1–1.0 per cent of the total formulation weight; this can be adjusted depending on the required degree of suspension, rheological properties or viscosity.

Usage:

It is recommended that this product be used as a pre-set slurry. DE01 can be easily and quickly prepared as a pourable pre-set slurry with a concentration of up to 14 per cent.

Preparation of DE01 pre-slurry:

1. Add 86 parts of water, switch on the high-speed mixer and set the shear rate to approximately 3,000 rpm.
2. Slowly add 14 parts of DE01, disperse for 5 minutes at a mixing speed of 3,000 rpm, and store the resulting pre-slurry in a sealed container.

Packing:

Net weight: 25 kg.

Storage:

- Store in a cool, well-ventilated place and keep the container tightly closed.
- Must be stored in a cool, dry environment; if DE01 is stored in conditions of high humidity, it will absorb moisture from the air.