

Solvent-borne Dispersant D106R

(Similar to BYK-106)

First, Overview

This product is an amine salt of organic acid. It is used for dispersing of pigments and fillers in paints and inks. Dispersant could shorten the dispersion stage and prevent defects such as loss of gloss, pigment floating and color blooming.

Second, Technical index

Appearance: colorless to light cyan transparent liquid

Active ingredient: 90%

Acid value: 140-240 mg KOH/g

Density: 0.9-0.995 g/cm³

Third, Characteristics

1. The dispersing agent D106R has low acidity and is especially suitable for complex mixed coating systems with pigments and fillers.
2. The dispersing agent D106R can be ionized by itself into charged groups with various structures, in order to improve the wettability of pigment and prevent the pigment and filler aggregation and sedimentation.
3. It could be combined with organic silicone oil and has better anti-floating and anti-blooming effect.
4. Dispersant D106R has certain anti sedimentation effect, especially in cooperation with bentonites, good synergistic effect could be observed.

Fourth, Scope of application

Alkyd paints, acrylic paints, nitrocellulose paints, phenolic paints, chlorinated rubber paints, epoxy paints, amino paints, polyurethane paints, polyester paints, etc.

Fifth, How to use it

1. Adding sequence: base material, D106R dispersant, then pigments and fillers. Afterwards dispersion stage with sufficient shear forces takes place.
2. When high shear dispersion equipment is used (such as bead mills) the strong shearing effect should be avoided. The medium should be stirred again after grinding to ensure the uniform distribution.
3. Excessive addition of dispersant D106R may lead to defects in fluidity, and the addition of a drier may lead to the extension of drying time. A small amount of solvent such as butanol and glycol ether can be added, and an appropriate amount of drier can be added.

Sixth, Dosage

Recommended dosage is 0.3-1.5% upon pigments and fillers and is 10-50% upon carbon black pigment.