

Rheological additive D410R

(Similar to BYK-410)

Summary

D410R is a liquid rheological additive suitable for medium polarity solvent-borne and solvent-free coating systems as well as for ambient curing systems. Additive produces highly thixotropic flow behavior, improves anti-sagging and anti-settling properties. Post-addition is possible.

Physical properties

Appearance: Yellow to brown liquid

Density: 1.02-1.12 g/cm³

Viscosity: 300-600 MPa. s

Non-volatile matter: ≥ 50

Refractive index: 1.5050-1.5150

Solvent: N-methylpyrrolidone

Product Application

Industrial coating systems

Features and advantages:

After mixing and adding to the coating system, the additive will generate a three-dimensional network structure, forming a thixotropic flow behavior that is very suitable for preventing sedimentation and anti-sagging performance without affecting leveling.

Usage and Dosage

The additive should be introduced in the system under moderate shear forces to ensure uniform mixing and rapid distribution. It does not require specialized temperature control. This additive could be introduced at the grinding stage or even post-addition is possible to adjust the viscosity. If the additive is suitable for the system, the rheological effect will increase significantly (depends on time and polarity of the system). Generally, the rheological effect can be evaluated in 2-4 hours after mixing. This additive is recommended for medium polarity systems.

The recommended dosage to prevent sedimentation and pigment floating is 0.2-0.5% (supply form) upon pigment content.

The recommended dosage to prevent sagging is 0.5-1% (supply form) upon pigment content.

Storage and Packaging

Temperature sensitive, store under dry conditions. During storage, slight turbidity may occur, but it does not affect the rheological effect. It is not recommended to store the product for more than 12 months.

25KG iron drum packaging.