



NUMBER 4161-4 (Supersedes 4161-3)

Admiral™ 3171 PB fluidized polymer suspension

Liquid Cellulosic Rheology Modifier for Paper Coatings

Description

Admiral 3171 PB fluidized polymer suspension is a 20% liquid suspension of a hydroxyethylcellulose (HEC) water-soluble polymer. It is designed to provide excellent coating pigment-structuring for improved coating holdout, reduced binder migration, improved smoothness, gloss, and other coating properties. Admiral 3171 PB fluidized polymer suspension is a low-viscosity liquid that thickens rapidly after addition to paper coatings without the requirement for pH adjustment.

Key Attributes

- Ability to increase coating solids while maintaining runnability
- Brightness, by acting as an OBA- (Optical Brightening Agent) carrier
- Coating porosity, which may benefit glueability and ink receptivity
- Does not require pH adjustment in order to attain complete effectiveness in paper coatings
- Low viscosity
- Easy handling
- Optimal cost effectiveness
- High pigment-structure-building performance
- Providing the well-established coating runnability performance of cellulosic water-soluble polymers
- Eliminates dusting
- pH stable
- Pourable, pumpable liquid product

Applications and Usage Notes

- **Clay containing coating formulations** – Admiral 3171 PB fluidized polymer suspension is very efficient in clay based coatings, as little as 5 parts of Clay.
- **Board coating formulations** – Admiral 3171 PB fluidized polymer suspension is an ideal candidate for rheology control. It structures the coating pigment while holding water that provides the best runnability. Results are independent of pH.

Usage Notes:

- Admiral™ 3171 PB fluidized polymer suspension **MUST** be added to an agitated vessel for batch-coating makedown vessel (Kady Mills,⁽¹⁾ Cowles Dissolver,⁽²⁾) or metered continuously to delcel coating operations. Typically, Admiral 3171 PB fluidized polymer suspension is added as the final ingredient to a coating batch to produce the target coating viscosity. Admiral 3171 PB fluidized polymer suspension requires 10-15 min dissolving time to reach full viscosity. This product reaches complete dissolution and effectiveness without the requirement of ammonia or other pH adjustment agent, and it is not affected by water hardness. Either a progressive cavity pump or diaphragm pump can be used for Admiral 3171 PB fluidized polymer suspension transfer. Admiral 3171 PB fluidized polymer suspension must be added before the OBA/FWA due to their very synergistic behavior. Please consult your sales representative.

⁽¹⁾Trademark of Kinetic Dispersion Corporation for its emulsifying and dispersing equipment.

⁽²⁾Trademark of Morehouse Industries, Inc., for its disperser.

Typical Product Properties

Appearance.....	tan opaque liquid
Viscosity, Brookfield LV, 60 rpm at 25°C, 10% Dilution.....	200-340
Active solids, %	20
pH.....	7.8-8.5
Density, lbs/gal (kg/l)	9.6 (1.15)
Boiling point, ^(a) °C.....	350
Shelf life, months.....	6
Storage	Protect from freezing

^(a)Due to the high boiling point of this product, DO NOT attempt to check solids in microwave or conventional ovens; damage to this equipment may take place as a result.

Packaging Information

Product	Physical Form	Pkg Type	Net Wgt (lbs)	Net Wgt (kgs)
Admiral 3171 PB	Liquid	Drum	500 lbs	226.7 kgs
Admiral 3171 PB	Liquid	IBC	2,500 lbs	1133.9 kgs
Admiral 3171 PB	Liquid	Bulk	-	-

Product Safety Information

Read and understand the Safety Data Sheet (SDS) before using this product.

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