

TECHNICAL DATA SHEET

BERCHEM® 4185

Coating Additive

BERCHEM® 4185 is an ester based additive specifically designed to promote clean runnability in calender stacks and provides surface coating holdout. BERCHEM® 4185 provides excellent anti-picking or anti-sticking properties to paperboard when applied at the calender stack's water box. In a pigmented coating application, it helps to significantly lower Hercules High Shear viscosity while it also improves paper, and print gloss. It can eliminate or significantly reduce dusting of all clay coating at the supercalender, and is especially effective in roto-gravure formulations which typically contain lower binder levels than offset formulations.

TYPICAL PROPERTIES

Type:	Fatty Acid Ester
Appearance:	Fluid white emulsion
pH:	8.0 – 10.0
Solids:	45.5 – 47.5%
Viscosity, Brookfield:	300 cPs max (#2 spindle @ 20 rpm)
Specific Gravity:	0.93 – 0.95

ADVANTAGES

Controls dusting	Stops calender sticking and picking
Liquid for easy handling	Efficient product
Significantly lowers HHSV of a pigmented coating (30%)	Increases print gloss by upwards of 2 points



30140 Eden Church Road
Denham Springs, LA 70726
1-800-4-BERCEN
www.bercen.com

TECHNICAL DATA SHEET

APPLICATION

BERCHEM® 4185 can be used in all types of clay coatings with as little as 0.5 - 1.0 part solids on pigment solids. For severe dusting problems, slightly more BERCHEM® 4185 may be needed. When used at the calender stack's water box, as little as 3-5 gallons per 1,000 gallons of water eliminates any sticking or picking problems. For best results, calender solution with BERCHEM® 4185 should be maintained at a pH range of 7.0 - 8.0.

STORAGE STABILITY

BERCHEM® 4185 should be stored between 45°F - 90°F, should be protected from freezing, and has a shelf life of six months. Mild agitation is recommended before use.

SHIPMENT

BERCHEM® 4185 is shipped f.o.b. manufacturing plant.

FDA STATEMENT

Paper and paperboard treated with BERCHEM® 4185 is FDA compliant, subject to the provisions of:

Title 21 CFR 176.170 (components of paper and paperboard in contact with aqueous and fatty foods) without limitations,

Title 21 CFR 176.180 (components of paper and paperboard in contact with dry foods) without limitations,

Title 21 CFR 175.300 (resinous and polymeric coatings) without limitations.

PRINT DATE

3/27/2012

Rev. MC4



Bercen, Inc., 30140 Eden Church Road, Denham Springs, LA 70726, (800) 423-7236, (225) 664-7167, Fax (225) 665-7902, bercen@bercen.com, is a division of Cranston Print Works Company. Nothing herein is to be taken as a warranty or representation. What is said in it is offered for your consideration, investigation, and verification. Nothing herein is to be understood as a permission to practice a patented invention without a license. No chemical should be used as or in a food, drug, or cosmetic, or in a product or process in which it may contact a food, drug, or cosmetic, until you have determined the safety and legality of the use.