



ADCOTE™ 40-3E Heat Seal Coating

Regional Product Availability

- North America

Description

ADCOTE™ 40-3E Heat Seal Coating is an opaque, peelable, modified polyester heat seal coating, primarily used in retortable lidding applications where the coating is applied to the treated or untreated polyester film side of an aluminum foil/polyester film laminate. ADCOTE 40-3E Heat Seal Coating can also be applied on plain 'A' wettable aluminum foil.

ADCOTE 40- 3E Heat Seal Coating forms peelable seals to formed CPET, APET, PVC, PVDC coated side of HIPS and ETP steel containers. A distinct feature of ADCOTE 40- 3E Heat Seal Coating is that it will maintain peelability even after being exposed to microwave and convection oven cooking cycles. This product exhibits good grease resistance to oils and other components found in most food products. This product produces a translucent film.

Typical Applications

ADCOTE™ 40- 3E Heat Seal Coating is suggested for use in lidding applications for food products, which will be exposed to retort conditions or require high bonds.

Typical Physical Properties

(These properties are typical but do not constitute specifications.)

Property	Value
Solids	35%
Viscosity	400 cps @77°F
Density	8.6 lb/gal
Solvent	Ethyl acetate
Shelf Life	360 days (unopened containers)
Minimum Heat Activation Range	250°F to 275°F

Recommended Operating Conditions

Application Method	Direct gravure
Application Solids	25% - 30%
Diluents	Ethyl acetate
Dry Coating Weight/3000 sq. ft.	4.0 - 5.0 lb**
Drying Web Temperature	200° - 210°F
Rewinding Temperature	<100°F
Cleaning Solvent	MEK or ethyl acetate

**4.0 dry lb/3000 sq. ft. is the minimum coating weight for retort applications.

Recommended Operating Guidelines	<p>This product may exhibit a slight gel upon storage. Such material can be restored with mild agitation and at temperatures between 77°F and 100°F.</p> <p>ADCOTE™ 40- 3E Heat Seal Coating must be mixed thoroughly before and during use to assure product uniformity.</p> <p>Use the highest possible air velocity and high drying temperature to achieve maximum web temperature for best coating results. If high coating weights are being applied, oven zone temperatures should be ramped to minimize solvent entrapment during drying.</p> <p>To facilitate optimal block resistant properties, be sure that the substrate coated with ADCOTE 40- 3E Heat Seal Coating is cooled over a chill roll prior to subsequent rewind or sheeting operations.</p> <p>Heat seal bond performance or blocking properties can be affected by inks, other coatings, retained solvents, or other substances which may offset in a roll or sheet. The end user should verify that these substances do not affect the heat seal performance or block resistant properties of ADCOTE 40- 3E Heat Seal Coating.</p>
Handling Precautions	<p>Before using this product, consult the Material Safety Data Sheet (MSDS)/Safety Data Sheet (SDS) for details on product hazards, recommended handling precautions and product storage.</p> <p>CAUTION! Keep combustible and/or flammable products and their vapors away from heat, sparks, flames and other sources of ignition including static discharge. Processing or operating at temperatures near or above product flashpoint may pose a fire hazard. Use appropriate grounding and bonding techniques to manage static discharge hazards.</p> <p>CAUTION! Failure to maintain proper volume level when using immersion heaters can expose tank and solution to excessive heat resulting in a possible combustion hazard, particularly when plastic tanks are used.</p>
Storage	<p>Store products in tightly closed original containers at temperatures recommended on the product label.</p>
Disposal Considerations	<p>Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.</p> <p>It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.</p> <p>ATTENTION! Container can be hazardous when empty. Follow label warnings even after container is empty. Do not reuse empty container without professionally cleaning it first.</p>

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

FDA Status

FDA Regulation	Complies	Limitations	Opinion Date
21CFR175.105 (Adhesives)	Yes		04/17/2003
21CFR175.300 (Resinous and polymeric coatings)	Yes with Limitations	For use only in contact with non-alcoholic foods.	04/17/2003
21CFR176.170 (Components of paper and paperboard in contact with aqueous and fatty foods)	Yes with Limitations	<ul style="list-style-type: none"> For use only in contact with non-alcoholic foods. Provided that the food contact surface of the paper and paperboard complies with the extractives limitations in 21CFR176.170 Paragraph (C). 	04/17/2003
21CFR176.180 (Components of paper and paperboard in contact with dry food)	Yes		04/17/2003
21CFR177.1210 (Closures with sealing gaskets for food containers)	Yes with Limitations	For use only in contact with non-alcoholic foods.	04/17/2003

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