



# TEXICRYL 13-503

## Styrene acrylic copolymer emulsion

### INTRODUCTION

TEXICRYL 13-503 is styrene acrylic copolymer emulsion designed for the formulation of printing inks for application to non absorbent, low surface energy substrates.

### CHARACTERISTICS (Not to be taken as a specification)

Solids Content	%	43
Viscosity at 25°C (Brookfield RVT, Spindle 4, 100 rpm)	mPa·s	450
pH		9
Particle size	nm	110
Acid value	mg KOH g <sup>-1</sup>	68
Specific gravity at 25°C	g/cm <sup>3</sup>	1.05
Minimum film formation temperature*	°C	<0
Glass transition temperature	°C	-50

\* Determined by metal bar with temperature gradient.

## APPROVALS

## Code of Federal Regulations – 21 Food and Drugs

### **Part 175 – Indirect Food Additives: Adhesives and Components of Coatings**

#### 175.105 Adhesives

TEXICRYL 13-503 complies with the requirements of this section.

### **Part 176 – Indirect Food Additives: Paper and Paperboard Components**

176.170 Components of paper and paperboard in contact with aqueous and fatty foods

176.180 Components of paper and paperboard in contact with dry food

TEXICRYL 13-503 complies with parts 176.170 and 176.180 under the following limitations: for use only in contact with food types IV-A, V and VII, under use conditions E to G in table 2 of paragraph 176.170(c). Also, for use with food types VIII and IX without use temperature restrictions.

Additionally, all finished paper coatings containing items listed in Section 176.170(b) must comply with the general extractable limitations prescribed in Section 176.170(c), except when used only in contact with dry food.

Types of food (Table 1, 176.170)

- I. Nonacid (pH above 5.0) aqueous products; may contain salt or sugar or both, and including oil-in-water emulsions of low- or high-fat content
- II. Acidic (pH 5.0 or below) aqueous products; may contain salt or sugar or both, and including oil-in-water emulsions of low- or high-fat content
- III. Aqueous acid or non-acid products containing free oil or fat; may contain salt, and including water-in-oil emulsions of low- or high-fat content
- IV. Dairy products and modifications:
  - A. water-in-oil emulsion, low- or high-fat
  - B. oil-in-water emulsion, high- or low-fat
- V. Low moisture fats and oils
- VI. Beverages:
  - A. Containing alcohol
  - B. Non-alcoholic
- VII. Bakery products
- VIII. Dry solids (no end test required)

**APPLICATIONS**

TEXICRYL 13-503 is used in the fomulation of printing inks for substrates such as Polyethylene, Polypropylene and various foils.

TEXICRYL 13-503 shows excellent water resistance, high gloss and superior wet rub resistance when formulated into an ink system.

**PACKAGING**

TEXICRYL 13-503 is supplied in drums and 1 tonne IBC's. Bulk supplies are delivered by road tanker.

**STORAGE**

TEXICRYL 13-503 can be stored in containers supplied. Protect from frost and extended exposure to direct sunlight.

**HEALTH & SAFETY**

Please see separate Material Safety Data Sheet.

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