

# MAYZO

**Escoat WPM 80  
Water-based Release Coat**



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## Escoat WPM 80 Release Coat

**Introduction:**

Escoat WPM 80 Release Coat is a non-silicone, polyvinyl acrylic water-based emulsion which provides an extremely low adhesion-to-backing (ATB) and unwind values. Escoat WPM 80 is designed for aggressive natural rubber, hot melt, or solvent SIS adhesives. Designed for release coatings on crepe kraft tapes, Escoat WPM 80 coatings also have a strong wetting and adhesion performance with PET. Escoat WPM 80 is useful for general-purpose tapes where an aqueous coating is needed. With peel values as low as many all silicone coatings Escoat WPM 80 coatings provide a good non-migrating alternative to the silicone treatments. By blending Escoat WPM 80 coating with other Escoat WPM products, a variety of peel/ATB values can be achieved.

**Material Description:**

Polyvinyl acrylic copolymer emulsion Release Coat

**Chemical Name:**

Polyvinyl acetate/acrylate copolymer

**Empirical Formula:**

Proprietary Blend

**CAS #:**

Mixture

**Molecular Weight:**

Proprietary

**Physical Properties:**

Appearance:	Off white, milky emulsion
Ionic Characteristic:	Nonionic
Solids Content:	40-42%
Solvent:	57+% Water
pH:	4.0 +/- 1
Specific Gravity:	~1.05
Viscosity:	~100cps
Flash point:	N/A (aqueous product)

**Mixing Instructions:**

Depending on the type of substrate and pressure sensitive adhesive, the concentration of solid matter required should be determined by laboratory trial. Escoat WPM 80 Release Coat diluted to between 25.0% to 35.0% solids will be adequate in most pressure sensitive applications. Some applications can be done with lower solids concentration (e.g. polyester film). Stir well before use.

**Applications:**

Escoat WPM 80 Release Coat is diluted in water to achieve application concentrations. Depending on the substrate and adhesive, the solids concentration should be determined by lab test. Recommended levels are between 25.0 - 35.0%. Film substrates should be corona treated to ensure adhesion to the substrate. Coat at 4 - 5 gm/m<sup>2</sup> (wet coat weight) using conventional coating methods with Meyer rod, Anilox or Gravure rollers. Coated substrate must be thoroughly dry before rewinding. For best performance, the substrate temperature should reach 300 °F to achieve full "curing" of the Escoat coating.

**Advantages:**

- Offers an extremely low ATB and unwind value. The smooth release properties are similar to silicone release coatings.
- Can be used on various grades of saturated creped kraft tapes- and on polyester films.
- Can be blended with other polymer release coats to obtain lower ATB values.
- Can be used with aggressive solvent, hot melt, SIS, or aqueous acrylic adhesives.

**Packaging:**

Escoat WPM 80 Release Coat is available in 480 lb. (217.8 kg) plastic drums and in 2200 lb. (998.2 kg) plastic totes.

**Storage:**

Keep away from fire and sunlight. Protect eyes and skin from direct contact and avoid inhaling. Do not store below 5°C or over 40°C. Keep container tightly closed. **DO NOT ALLOW THIS PRODUCT TO FREEZE. It will no longer be usable.**

**Toxicity & Safety:**

This material is not intended for use in products for which prolonged contact with mucous membranes or abraded skin, or implantation within the human body is specially intended, unless the finished product has been tested in accordance with the Food and Drug Administration and/or other applicable safety testing requirements. Because of wide range of such potential uses, Mayzo, Inc. is not able to recommend this material as safe and effective for such uses and assumes no liability for any such uses. Read and understand the Material Safety Data Sheet before using or handling this product.

**FDA Regulations:**

Escoat WPM 80 Release Coat does not have any approval for indirect food contact.

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