

## RA-110W Release Coat

**Introduction:** RA-110W Release Coat is a non-silicone, fluorochemical (acrylic backbone) water based emulsion which provides superior release characteristics when applied to many film types including polypropylene, polyethylene, and polyester. Metallized foil and paper substrates can also be coated.

**Material Description:** Fluoro-Acrylate Release Coat

**Chemical Name:** Fluoro-Acrylate

**Empirical Formula:** Proprietary Blend

**CAS #:** Mixture

**Molecular Weight:** Proprietary

**Physical Properties:**

Appearance:	Milky white emulsion
Ionic Characteristic:	Cationic
Solids Content:	30%
Solvent:	60% Water 10% Acetone
pH:	4.3 +/- 1
Specific Gravity:	1.07
Flash point:	<6 °C (<43 °F) [Closed cup]

**Mixing Instructions:** Depending on the type of substrate and pressure sensitive adhesive, the concentration of solid matter required should be determined by laboratory trial. RA-110W Release Coat diluted to between 0.5% to 3.0% solids will be adequate in most pressure sensitive applications. Stir well before use.

**Applications:** RA-110W 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 0.5 - 3.0%. 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.

**Advantages:**

- Offers a low noise release. The smooth release properties are superior to PVODC release coatings.
- Cost Efficient. Requires a smaller amount of material than silicone release coatings. Excellent release can be obtained using as little as 0.5% solids concentration, depending on film, adhesive, coating equipment and desired release levels. Only a near monomolecular film is required to achieve excellent results.
- Release effects are unaffected at temperatures up to 350° F.

- Unlike silicone, no diffusion into the adhesive means no contamination of the finished product.

**Packaging:**

RA-110W Release Coat is available in 40 lb. (18.15 kg) pails and 441 lb. (200 kg) steel drums.

**Storage:**

This product is a flammable liquid. Store in sealed containers in approved flammable storage areas. Avoid open flame, sparks, and high heat during use. Do not breathe vapors.

**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:**

RA-110W Release Coat does not have any approval for indirect food contact.

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