

## RA-150W Release Coat

**Introduction:**

RA-150W Release Coat is a high quality release coating developed for pressure sensitive adhesive tapes to provide controlled release. It adheres well to polyester and corona or flame treated polyolefins. It provides excellent release, even in high humidity environments, with rubber, solvent acrylic and hot-melt adhesives. RA-150W Release Coat may also be used as a water based over print varnish having good gloss, release power and a low coefficient of friction.

**Material Description:**

Aqueous Polyurethane Release Coat

**Chemical Name:**

Aliphatic modified polyurethane aqueous dispersion

**Empirical Formula:**

$[-\text{OCO}(\text{CH}_2)_2\text{OCONH}(\text{CH}_2)_6\text{NH-}]_n$

**Molecular Weight:**

$[230.3]_n$

**Physical Properties:**

Appearance:	Clear to slightly hazy liquid
Ionic Characteristic:	Anionic
Total Solids in %:	$25 \pm 2$
pH:	8.3 +/- 1.0
Water Solubility:	Completely soluble
Specific Gravity (H <sub>2</sub> O=1):	1.1
Brookfield Viscosity (#1RV @100rpm):	20-60 cps
Flash point:	>100 °C (>212 °F) [Closed cup]

**Mixing Instructions:**

Dilute with water and mix thoroughly to achieve desired solids concentration. Recommended applications solids concentration, usually in the range of 1.0 - 1.5% solids, is best determined by trial. Apply using Meyer rod, Anilox or Gravure rollers at 4-5 gm/m<sup>2</sup>. Dry coating thoroughly at between 80 to 100°C depending on web speed and oven efficiency before rewinding. No curing mechanism is required.

**Advantages:**

- Water based system.
- Compatible with all standard adhesive systems.
- Provides a controlled release effect.

**Packaging:**

RA-150W Release Coat is available in 110.2 lb. (50 kg) plastic drums.

**Storage:**

The shelf life of RA-150W Release Coat is at least 6 months when stored in securely closed containers in cool, dry storage locations. Despite a very good freeze thaw stability, it is advised to protect from low temperature (below 32°F). Stir before use.

**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.

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