

# RESIFLOW® L-37 FLOW CONTROL AGENT FOR THE COATINGS INDUSTRY

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## GENERAL DESCRIPTION

Resiflow® L-37 is a silicone-free, 100% solids, reactive polyacrylate additive for high solids, solvent-based, free radical UV, cationic, coil, and general industrial coatings, inks and adhesives.

Resiflow® L-37 has been tested in various formulations and is especially effective in urethane acrylates, epoxy acrylates, polyesters, and epoxies. Recommended level of usage is 0.1%-0.5% based on solids. It can be cut in various reactive diluents, aromatic and aliphatic hydrocarbons, esters, ketones, or alcohols for easy incorporation into the formula. As with any raw material, laboratory evaluation is required for each formulation to determine the best processing method and the optimum concentration of the additive.

## KEY ATTRIBUTE SUMMARY:

- Enhanced resistance against air entrapment; promotes air release
- Improved mar and stain resistance
- Reduced pigment floating
- Reduced formation of Benard cell structures and fish-eyes
- Increased gloss

## TYPICAL PROPERTIES\*

Appearance	Clear Liquid
Gardner Color	3 max
Specific Gravity (25/25)	1.01 – 1.03
Gardner Viscosity, 80% SOLIDS IN XYLENE	U – Y
Non-Volatile, weight %	97.0% minimum
Acid value, mg KOH / gram	5 max

\* Not to be used for specification purposes

## REPRESENTATIVE FORMULATION

Resiflow L-37 was compared to a number of silicone and other defoamers for anti-foam and air release characteristics in the following formulation.

Cyracure UVR 6105 (Dow)	81.5 parts
Tone 0301 (Dow)	4.0 parts
Heloxy 505 (Hexion)	5.0 parts
Limonene Dioxide (Lyondell)	5.0 parts
UVI 6990 (Dow)	4.0 parts
Resiflow L-37 (Estron Chemical, Inc.)	0.5 parts

The formulation was tested by going through 2 cycles (5 minutes each) in a paint can shaker.

## VISUAL OBSERVATIONS:

- Resiflow L-37 significantly lowered foam and air entrapment in comparison to silicone additives.
- Resiflow L-37 induced much faster disappearance of air bubbles/foam in comparison to other additives.

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- Resiflow L-37 does not interfere with wetting characteristics and forms a clear solution on various substrates including, vinyl, aluminized paper, Corona treated oriented polypropylene, and polyethylene at 0.5 mil film thickness.
- Similar observations were made when Resiflow L-37 was tested in urethane acrylates, epoxy acrylates, free radical clear and pigmented formulations. Resiflow L-37 stabilized coating formulations against entrapment of air and reduced tendency to foam, especially in high-speed environments.

**REGULATORY LISTINGS**

The components in this material are either listed or exempt from listing due to polymer exemption criteria for the following chemical listing inventories: DSL (Canada), EINECS (Europe), TSCA (USA)

**PACKAGING (NET WEIGHT)**

44 lb. / 20 kg in steel pail  
440 lb. / 199.6 kg in steel drum

**PRODUCT AVAILABILITY**

This product is commercially available and may require lead time.

**STORAGE AND HANDLING**

Keep container tightly closed and store in a dry, well ventilated area away from heat and sources of ignition. Store at less than 100°F (38°C). Shelf life of unopened containers is 1 year from date of shipment. See SDS for additional information.

**CONTACT INFORMATION**

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*TDS Revised by: A. Buckhalter*

*TDS Approved by: F. Allen*