

# RESIFLOW® PH-241 FLOW CONTROL AGENT FOR POWDER COATINGS

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## GENERAL DESCRIPTION

Resiflow® PH-241 is a reactive flow control agent that can improve the edge coverage ability of a formulated coating and minimize picture framing. This product is typically used from 0.75% to 2% on formula weight and is suitable for essentially all binder chemistries including polyesters, hybrids and epoxy based formulations.

During the cure cycle, Resiflow PH-241 works by reacting with the binder system of the powder coating as well as crosslinking with itself. This crosslinking feature restricts the flow of the formulated coating, even with higher levels of flow control agent, which may provide improved edge coverage and reduction in undesirable picture framing. Non-reactive flow control agents typically demonstrate increased flow as the relative level of flow control agent increases.

As with any raw material, laboratory evaluation is recommended for each formulation to determine the optimum concentration of additive required and optimal processing conditions. Also, when evaluating any flow control additive, compatibility and re-coatability testing are always highly recommended.

## TYPICAL PROPERTIES\*

Appearance	White Powder
Specific Gravity (25/25)	1.25 – 1.35
Activity, weight %	67 - 69
Non-Volatile, weight %	98% minimum

\* Not to be used for specification purpose

Example formulations of Pill Flow\* adjustment with different levels of PH-241.

<b>60/40 HYBRID</b>	<b>1</b>	<b>2</b>	<b>3</b>
Polyester, AV=50-55	41	41	41
Epoxy, EEW = 700	27.6	27.6	27.6
Benzoin	0.5	0.5	0.5
Titanium Dioxide	30	30	30
<b>Resiflow PH-241</b>	<b>0.75</b>	<b>1</b>	<b>2</b>
Pill Flow (mm) =	79	75	60

\* Pill Flow Test Method: 0.7 g compressed pellet, 10 min at 190°C, and 65° angle of plate.

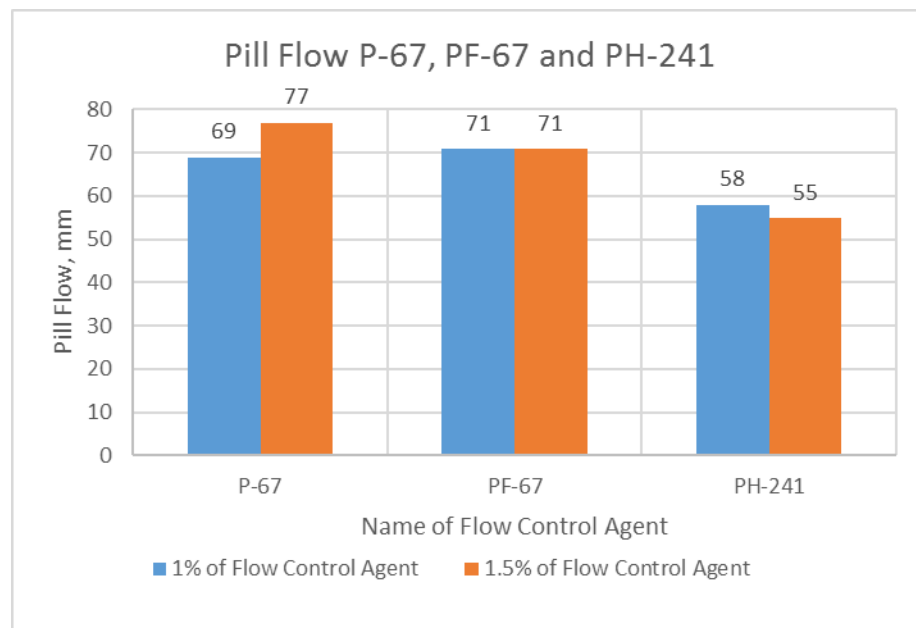
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**Pill Flow Comparison: Flow Control Agents**



**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), IECSC(China), TSCA (USA).

**PACKAGING (NET WEIGHT)**

250 lb. / 113.4 kg in fiber drum with polyolefin liner  
55 lb. / 25 kg in fiberboard box with polyolefin liner

**PRODUCT AVAILABILITY**

This product is commercially available.

**STORAGE AND HANDLING**

Store in a dry, cool area and avoid excessive heat. Shelf life of unopened containers is one year from date of shipment. Refer to the SDS for additional information.

**CONTACT INFORMATION**

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