

EPOMATT® G-154
GLOSS MODIFIER
FOR EPOXY-POLYESTER POWDER COATINGS

Experimental Product



THE EDGE OF INNOVATION

www.estron.com

GENERAL DESCRIPTION

Epomatt® G-154 is a carboxyl-functional, solid acrylic resin designed to produce standard and low cure hybrid powder coatings with 60° gloss values between 2 and 45. The formulated coatings demonstrate good smoothness, mechanical and chemical resistance properties. Unlike powders made with traditional gloss modification technologies, those formulated with Epomatt® G-154 show less gloss variation under high and low cure conditions or with varying metal substrate thicknesses. When used with a suitable hybrid polyester resin, cure at temperatures as low as 130°C (266°F) can be achieved. This is not possible with traditional gloss lowering technology. As is the general case with low-bake-capable systems, powder coating formulated with Epomatt® should be tested for storage stability and kept at temperatures below 25°C.

Epomatt® G-154 technical brief for suggested starting formulas may be found and downloaded from our website. As with any raw material, laboratory evaluation is required with specific resins to determine the best processing conditions and optimum binder components.

TYPICAL PROPERTIES*

Appearance	Clear Granules
Specific Gravity (25/25)	1.13 – 1.19
Softening Point, BALL & RING	115-130°C
Acid value, mg KOH / gram	160-170
Non-Volatile, weight %	98.5% minimum

* Not to be used for specification purposes

Formula example:

Formulation with	Low Cure High Flow White Formula	Standard Resin High Tg Formula with Low Cure Capabilities
Percent G-154 in Binder	12%	13%
Allnex Crylcoat 1574-6	245.6	
Allnex Crylcoat 1514-2		231.0
Huntsman Araldite GT-7013	390.8	396.6
G-154	86.8	93.8
Resiflow PL-200	15.0	15.0
Benzoin	3.7	5.0
BaSO4 / Blank Fixe F	35.7	36.0
Huntsman TR-60 Titanium Dioxide	216.5	216.4
Black Iron Oxide (Harcross BK5500)	1.0	1.3
Escat 50	5.0	5.0
Total	1000.0	1000.0

EPOMATT® G-154 *Experimental Product*
GLOSS MODIFIER
FOR EPOXY-POLYESTER POWDER COATINGS

www.estron.com



Cure and Gloss Data for example formulas

Cure Data White with 12% G-154	Substrate Thickness	60° Gloss	Reverse Impact	MEK rubs
15' @ 200°C	0.5 mm	19	160	225
20' @ 150°C	0.5 mm	30	160	125
45' @ 130°C	0.5 mm	43	160	125

Cure Data Black with 20% G-154	Substrate Thickness	60° Gloss	Reverse Impact	MEK rubs
15' @ 200°C	0.5 mm	2.5	80	150
20' @ 150°C	0.5 mm	3.0	40	100
45' @ 130°C	0.5 mm	4.0	40	100

REGULATORY LISTINGS

The components of this material are either listed or exempt from listing due to polymer exemption criteria for the following chemical inventory listings: AICS (Australia), DSL (Canada), ECL (Korea), EINECS (Europe), ENCS (Japan), IECSC (China), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA). REACH pre-registered.

PACKAGING (NET WEIGHT)

55 lb. / 25 kg in fiberboard box with polyolefin liner

PRODUCT AVAILABILITY

This product is experimental and subject to change. It is available in commercial quantities. Please contact your Estron Sales Representative for lead time and availability.

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 6 months from date of shipment. See SDS for additional information.

CONTACT INFORMATION

807 N. Main Street

P.O. Box 127

Calvert City, KY 42029 USA

(270) 395-4195 PHONE

(270) 395-5070 FAX

Revision Date: August, 30, 2016

TDS Authored by: A. Chizhikova

Approved by: F. Allen