

EPOMATT® G-151 MATTING AGENT FOR EPOXY POWDER COATINGS

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THE EDGE OF INNOVATION

GENERAL DESCRIPTION

Epomatt® G-151 is a special type of gloss modifier for epoxy-based powder coatings. Using 8-10 phr of Epomatt® G-151 with an epoxy resin cured with 3-6 phr of an epoxy curing agent such as Estron's Epoxy Hardener G-91, most accelerated dicyandiamides, or o-tolyl biguanide (OTB) can produce an exceptionally smooth, matte coating with good mechanical and chemical resistance properties. Epomatt® G-151 is most suited for formulating epoxy powder coatings with 60° gloss less than 10%.

A key feature of G-151 is the ability to maintain low gloss with low bake, e.g. curing as low as 140°C. The limiting factor for both low bake capability and low color advancement lies with the epoxy curing agent, not the Epomatt® G-151. Another key benefit of matte epoxy coatings using Epomatt® G-151 is good overbake yellowing stability which is linked to the choice of appropriate curing agent (such as OTB) for light colors.

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. Estron provides some additional formulating data and tips for G-151 in the Technical Briefs #1, #2.

TYPICAL PROPERTIES*

Appearance	Clear to Hazy Granules
Specific Gravity (25/25)	1.10 – 1.15
Softening Point, BALL & RING	115 - 125°C
Acid value, mg KOH / gram	130 - 150
Non-Volatile, weight %	98.5% minimum
Gardner color, 50% IN BUTYL ACETATE	2 max

* Not to be used for specification purposes

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: DSL (Canada), TSCA (USA).

One or more components of this product are not REACH registered. Import quantities may be subject to limitation.

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 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 one year from date of shipment. It is suggested that the long-term stability of finished powder coatings be evaluated by the

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formulator and that unsprayed powder produced with Epomatt® G-151 / Epoxy Hardener G-91 not be stored for prolonged periods at temperatures exceeding 80°F (27°C). See SDS for additional information.

CONTACT INFORMATION

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TDS Revised by: A. Chizhikova

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