

Isocryl® EP-463 *Experimental Product*
ACRYLIC RESIN
FOR POWDER COATINGS



THE EDGE OF INNOVATION

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GENERAL DESCRIPTION

Isocryl® EP-463 is a solid, glycidyl-functional acrylic binder resin which can be cured with carboxyl or amine functional curatives to provide coatings with a high degree of outdoor durability. For example, Isocryl EP-463 can be cured with dodecanedioic acid to make a smooth, clear, high-gloss coating with excellent durability.

Isocryl EP-463 is optimized to provide an excellent balance between smoothness and storage stability of the formulated product, otherwise only achievable by blending resins.

As with any raw material, laboratory evaluation is required for each formulation to determine the best processing method and the optimum concentration of Isocryl EP-463

TYPICAL PROPERTIES*

Appearance	Ground Clear Flake
Non-Volatile, weight %	98.5 minimum
Specific Gravity (25/25)	1.10 - 1.20
Softening Point, RING & BALL, °C	110 - 120
Epoxy Equivalent Weight	510 - 560
Glass Transition Temperature, °C	48 - 55

* Not to be used for specification purposes

BINDER RESINS

Properties	Isocryl EP-460	Isocryl EP-462	Isocryl EP-463
Appearance	Ground Clear Flake	Ground Clear Flake	Ground Clear Flake
Non-Volatile, weight %	98.5 min	98.5 min	98.5 min
Specific Gravity (25/25)	1.05 - 1.15	1.10 - 1.20	1.10 - 1.20
Softening Point, RING & BALL °C	100 - 110	110 - 120	110 - 120
Epoxy Equivalent Weight	510 - 560	510 - 560	510 - 560
Glass Transition Temperature °C	45 - 50	55 - 63	48 - 55

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), ECL (Korea), IECSC (China), NDSL Canada, NZIoC (New Zealand), TCSI (Taiwan), TSCA (USA).

All components are REACH registered per ECHA requirements.

PACKAGING (NET WEIGHT)

250 lb. / 113.4 kg in fiber drum with polyolefin liner

55 lb. / 25.0 kg in fiberboard box with polyolefin liner

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PRODUCT AVAILABILITY

This product is experimental and subject to change. Please contact your Estron Sales Representative for lead time and availability.

STORAGE AND HANDLING

Store in a dry, cool area and avoid excessive heat. Keep containers tightly closed. Store at less than 86°F (30°C). Shelf life of unopened containers is one year from date of shipping. Refer to the SDS for additional information.

CONTACT INFORMATION

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