



ACRYLIC MODIFIED AMINE TERMINATED SILICON RESIN

SH-120

SH-120 is a reaction product of amine terminated silicon resin with acrylic ester used as a crosslinker to improve the physical properties and long-term performance of epoxy-siloxane paints and coatings.

APPLICATIONS

SH-120 has been developed primarily for use with liquid epoxy-siloxane resin; it out-performs other epoxy-siloxane based systems by offering the capability to formulate without solvent, at zero VOC.

SPECIAL FEATURES

- Fast film-drying and cure with liquid epoxy-siloxane polymer
- Excellent anti-corrosive resistance
- Excellent adhesion, toughness
- Excellent water and chemical resistance
- Low temperature cure
- Reduces the water absorption
- Improves initial flexibility, thermal resistance.
- Excellent compatibility with epoxy-siloxane resins
- extraordinary weathering resistance
- outstanding gloss retention and low yellowing
- isocyanate-free ambient temperature crosslinking
- suitable for very high-solids coatings
- free of benzylalcohol/alkylphenols

TYPICAL PROPERTIES

Typical general characteristics	Inspection Method	Value
Boiling point / Boiling range at 1013 hPa		217 °C
Flash point	ISO 2719	93 °C
Density at 25 °C	DIN 51757	1 g/cm ³
Viscosity, dynamic at 25 °C	DIN 51562	approx. 15 mPa.s
Refractive index (25°C)		1,420
Purity		99 %
A.H.E.W. (g/eg)		120

These figures are only intended as a guide and should not be used in preparing specifications.



APPLICATION

Epoxy polysiloxane systems are an economic alternative to reduce 3 coat systems to a 2 coat system.

- offshore/marine coatings
- commercial transport coatings
- pipeline coatings
- structural steel coatings
- rail car coatings
- tank coatings
- anti-graffiti coatings
- architectural coatings

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PROCESSING

Information on guide formulations is available upon request.

- All weather-stable pigments can be used.
- SH-120 with Epoxy-Siloxane paints are 2-pack system.
- First pack contains Epoxy-Siloxane, pigments, additives,
- Second pack contains SH-120 as hardener.
- Mix both packs thoroughly prior to use.
- Dry to touch is approx. 3h @ 25°C.

STORAGE

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

PACKAGING

400 lbs. steel drum and 42 lbs. pail

REGISTRATION STATUS

SH-120 ingredients are listed in the following chemical inventories: ECL, EINECS, ENCS, NDSL, PICCS, TSCA.

All ingredients are listed on the TSCA inventory or comply with the TSCA Polymer Exemption criteria according 40 CFR 723.

SAFETY NOTES

Comprehensive instructions are given in the corresponding Safety Data Sheets. They are available on request from Biro Technologies Inc.

As with any product, use of SH-120 in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability.

The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the products for a particular purpose.