



EPOXIDE FUNCTIONAL SILICONE RESIN

ES-450

ES-450 resin represents a novel technology for today's coatings formulator. The coatings exhibit strong anti-corrosive characteristics, also display antifouling and anti-icing properties.

The coatings from this resin are hard, tough, and have excellent abrasion and solvent resistance. These finishes are also resistant to water, alkali and acids, suitable to use for underwater application.

The most common substrates for Epoxy-Siloxane coatings are: metal, wood, plastic, concrete and masonry substrates.

ES-450 can be formulated into a very low VOC, corrosion and weather resistant coating.

Special features

- excellent corrosion resistance
- extraordinary chemical and weather resistance
- suitable for ultra-high solids coatings
- suitable for under water application
- antifouling and anti-icing properties

Technical information

- delivery form liquid
- appearance clear liquid
- non-volatile content > 99 %
- viscosity at 25 °C approx. 400 mPa s
- epoxy equivalent weight approx. 374 g/eq

Suitability for

- solvent borne
- 2-pack
- high solid
- clear and pigmented coat

Application

Epoxy polysiloxane systems with FST for antifouling coatings.

- offshore/marine coatings
- pipeline coatings
- structural steel coatings
- antifouling and anti-icing coatings
- tank coatings
- anti-graffiti coatings



PROCESSING

Information on guide formulations is available upon request.

- All weather-stable pigments can be used.
- SH-450 with SA-121, SAW-112 are 2-pack system.
- First pack contains Epoxy-Siloxane, pigments, additives,
- Second pack contains SA-121 or SAW-112 as hardener.
- Dry to touch is approx. 4-5h @ 25°C.

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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

440 lbs. steel drum, 48 lbs. pail

REGISTRATION STATUS

ES-450 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 ES-450 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.