LANDU

Technical data sheet
TDS-NOVERA-4020-L-EN
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LANDUSIL NOVERA

4020-L

Epoxy-Siloxane Blend Binder

Epoxy-siloxane blend binder for epoxy coatings, adhesives, infusion resins and filled compounds

Chemical identity

Chemical name
Epoxy-siloxane blend

CAS number
Mixture – see SDS

Reactive group
Epoxy

Physical form
Liquid

Product description

LANDUSIL NOVERA 4020-L is a liquid epoxy-siloxane blend based on a standard bisphenol-A epoxy resin modified with a reactive siloxane. It is supplied as a clear to hazy liquid.

It is blended into epoxy systems to add flexibility, hydrophobicity and heat resistance. It is used in industrial metal coatings, assembly adhesives, epoxy resin infusion and mineral-filled epoxy molding compounds.

Features and benefits

- Epoxy and siloxane in one binder
- Compatible with common epoxy hardeners
- Adds flexibility and hydrophobicity
- Low-viscosity liquid
- Suited to infusion and filled compounds

Specification

Property	Unit	Value	Test method
Appearance		**Clear to hazy liquid**	Visual
Epoxy equivalent weight	g/eq	**185 – 200**	Titration
Viscosity, 25 °C	mPa·s	**2,500 – 4,000**	Rotational viscometer

Tested on every batch and reported on the Certificate of Analysis.

Typical properties

EEW range	180 – 250 g/eq
Viscosity range	2,000 – 6,000 mPa·s

For guidance only; not part of the specification.

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Applications

Industrial metal coatings
Co-binder in epoxy coatings.

Siloxane modification of epoxy adhesives
Flexibilising component.

Mineral-filled epoxy molding compounds
Resin for filled compounds.

Epoxy assembly adhesives
Modifier for epoxy adhesives.

Epoxy resin infusion
Resin component for infusion.

Guidelines for use

Blending	Blend with the receiving epoxy resin and check clarity; add hardener last.
Cure	Cure with amine, anhydride or other hardeners based on epoxy equivalent weight.

These levels are starting points. Determine the optimum level and method in trials under your own conditions.

Handling and safety

- Epoxy compounds can cause skin sensitization; avoid skin contact and wear gloves and eye protection.
- Keep away from heat and ignition sources; use with ventilation.
- Read the Safety Data Sheet before use.

Storage and shelf life

Store in tightly closed original containers in a cool, dry place, protected from moisture. Shelf life is 12 months from the date of manufacture in unopened containers.

Packaging

25 kg plastic drum, 200 kg steel drum, 1,000 kg IBC. Other pack sizes on request.

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