LANDU

Technical data sheet
TDS-NOVERA-4010-L-EN
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LANDUSIL NOVERA

4010-L

Epoxy Polysiloxane Resin

Solvent-free epoxy polysiloxane resin for protective metal coatings and epoxy binders

Chemical identity

Chemical name
Epoxy-functional polysiloxane resin

CAS number
See SDS

Reactive group
Epoxy

Physical form
Liquid

Product description

LANDUSIL NOVERA 4010-L is a liquid epoxy-functional polysiloxane resin with a high non-volatile content. It combines siloxane weathering resistance with epoxy reactivity.

It cures with amine or amino-silane hardeners, without isocyanates. It is used in industrial equipment coatings, marine atmospheric protection, steel infrastructure coatings and epoxy binder studies.

Features and benefits

- Epoxy-functional polysiloxane
- Isocyanate-free cure
- Gloss and colour retention
- High non-volatile content
- Low-VOC coating capable

Specification

Property	Unit	Value	Test method
Appearance		**Clear to hazy liquid**	Visual
Epoxy equivalent weight	g/eq	**400 – 500**	Titration
Viscosity, 25 °C	mPa·s	**1,000 – 2,000**	Rotational viscometer

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

Typical properties

Non-volatile content	approx. 98 %
Cure	Non-isocyanate

For guidance only; not part of the specification.

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Applications

Industrial equipment coatings
Binder for equipment topcoats.

Steel infrastructure coatings
Binder for steel topcoats.

Flooring and concrete primer development
Resin in primers.

Marine atmospheric protection
Binder for atmospheric marine coatings.

Epoxy adhesive binder studies
Co-binder in epoxy adhesives.

Guidelines for use

Hardener	Choose the amine or amino-silane hardener on measured epoxy equivalent weight.
Pot life	Mix in the stated ratio, apply and check pot life and cure on the prepared substrate.

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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