LANDU

Technical data sheet
TDS-DUVERA-5070-E-45-EN
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LANDUSIL DUVERA

5070-E-45

Vinyl Siloxane Emulsion

Nonionic emulsion of a vinyl-functional polydimethylsiloxane, about 45 % solids

Composition

Chemical name
Vinyl Siloxane Emulsion

CAS number
Mixture – see SDS

Chemical type
Vinyl-functional polydimethylsiloxane emulsion

Emulsifier type
Nonionic

Solids content
45 ± 2 %

Physical form
Emulsion

Product description

LANDUSIL DUVERA 5070-E-45 is a nonionic, milky-white emulsion of a vinyl-functional polydimethylsiloxane with a solids content of about 45 %. It is diluted with water and needs no solvent.

The vinyl groups can take part in addition or radical reactions in the dried film, so the silicone is bound in the coating. The emulsion is used in waterborne coatings, paper and film surfaces, technical textile coatings and waterborne release formulations.

Features and benefits

- Water-dilutable, no solvent
- Nonionic, compatible with many bath types
- Vinyl groups for reaction in the film
- About 45 % solids, economic to transport
- Milky-white, uniform emulsion

Specification

Property	Unit	Value	Test method
Appearance		**Milky white liquid**	Visual
Solids content	%	**43 – 47**	Gravimetric
pH, 25 °C	–	**6.0 – 8.0**	pH meter

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

Typical properties

Emulsifier type	Nonionic
Dilution	With water

For guidance only; not part of the specification.

Applications

Waterborne industrial coatings
Silicone additive for waterborne coatings.

Technical textile coatings
Silicone finishes on technical textiles.

Paper and film surfaces
Release and slip layers on paper and film.

Waterborne release formulations
Base emulsion for release coatings.

Guidelines for use

Dilution	Add the emulsion to water under gentle stirring; do not add water to the emulsion at high shear.
Compatibility	Test the bath for stability with salts, resins and catalysts before scale-up.

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

Handling and safety

- Avoid contact with eyes.
- Protect from frost.
- Read the Safety Data Sheet before use.

Storage and shelf life

Store at 5 – 30 °C in tightly closed original containers; protect from frost and direct sunlight. 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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