THIXOTROPIC EPOXY RESIN

EpoxyGel

Two component · A:B 100:50 by weight

Two-component thixotropic epoxy system with no added solvents according to the reference formulation. It is trowel applied and has a transparent, glossy appearance after curing in a thin layer. Its gel structure facilitates working and limits sagging.

Intended uses

- Decorative work and transparent coatings on suitably prepared substrates.
- In Resin One systems, it may be evaluated as a trowel-applied pore filler before Poly DN to close surface pores and even out absorption. This use requires preliminary compatibility, adhesion and recoating tests.

Product data

Property	Value / instruction
Chemical nature	Two-component epoxy resin; A = base, B = hardener
Appearance	Transparent opalescent before application; transparent and glossy in a thin, cured film
Specific gravity A+B at 20 °C	1.15 kg/L ± 0.05
A:B mixing ratio by weight	100:50; 2 parts A + 1 part B
Pot life at 20 °C	Approximately 40 minutes
Working temperature	+10 °C to +35 °C
Tinting	Original reference: 3-5% solvent-based pigments added to component A; check compatibility for EpoxyGel
Theoretical consumption	Approximately 1.2 kg/m² per 1 mm thickness, from the original reference
Pack size	3 kg: 2 kg component A + 1 kg component B

Appearance and properties

The material can appear opalescent in the container and become transparent and glossy when spread thinly, according to the reported application trials. On coloured substrates it can create a wet-look effect and intensify or slightly darken the shade. Always carry out a trial on an approved sample before the work.

- Thixotropic consistency suitable for trowel application.
- Two-component epoxy system with no dilution specified.
- Transparent, glossy appearance after thin application.
- Fills surface micropores and can intensify the substrate colour.

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- Chemical and mechanical resistance must be assessed for the complete system.

1. Prepare the substrate

The surface must be dry, stable, clean and free from contaminants, dust, oils, grease and loose material. Carry out the necessary sanding or grinding and remove dust thoroughly. Check that there is no rising damp or condensation. Assess substrate-specific primers and preparation.

2. Mix the components

Thoroughly mix 2 parts A with 1 part B by weight, 100:50. Scrape the sides and bottom of the container and avoid entraining air. Prepare only the quantity that can be used within the working life. Do not add water or thinners without specific, validated technical instructions.

3. Trowel application

Spread EpoxyGel evenly with a steel trowel. For pore filling, work in a thin layer to close pores without build-ups or ridges. Actual consumption depends on roughness, porosity and the amount of material left on the substrate.

Before applying Poly DN

Check curing, film cleanliness, whether adhesion sanding is needed and the correct recoating window. The supplied documentation does not contain validated overcoating times for this system. Carry out a panel test with both products and check adhesion and the final appearance.

Application conditions and precautions

The reference data sheet recommends avoiding application above 70% relative humidity, in the presence of condensation or on damp substrates. Temperature, film thickness and mixed volume affect the reaction. As with epoxy resins, assess possible colour changes or yellowing over time, especially on light shades and under UV exposure.

Storage and safety

Store in intact, closed original containers, protected from frost and excessive heat. The original reference indicates a shelf life of approximately 12 months. Use suitable personal protective equipment, do not eat or smoke during use, and consult the current Safety Data Sheets for both components.

Technical data validation

The Italian data sheet was prepared from the supplied “Gel in resina” reference documentation and the application observations reported for EpoxyGel. Laboratory values, the Resin One / Poly DN system, adhesion, recoating times and UV stability must be confirmed by the manufacturer before use as a definitive technical specification.

Document reference

English translation of the Italian technical data sheet currently published at Decoriamonoi.it. Italian source: 02 / 11.2026. English edition: 01 / 18 November 2026. The technical values, stated test scope and application limitations of the Italian source are retained.

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