GELSON
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TECHNICAL
DATA SHEET

REV.3 24/10/2025

GELPUR

DEFINITION

Two-component, solvent-based, high-solid, and self-leveling polyurethane coating.
It is a flexible and elastic coating, ideal for flooring various surfaces, including concrete, fiberglass, and metal. Its formulation allows for a jointless, smooth, and homogeneous layer, with an application thickness that can range from 2 to 5 mm. Thanks to its excellent adhesion, it bonds strongly to substrates such as wood, steel, aluminum, and concrete. It is an easy and practical product to apply.
Two versions are available:

- GELPUR for concrete
- GELPUR type E for vehicle floors

ATTENTION: GELPUR is a floor coating and does not contribute to the structural reinforcement of the floor.

CHARACTERISTICS

Part A – GELPUR – GELPUR E:

- Density: 1.50 ± 0.03 g/cm^3
- Color: grey
- Dry residue: >90%

Part B - GELPUR – catalyst:

- Density: 1.23 ± 0.03 g/cm^3
- Color: brown
- Non volatile content: 100%

Ready-to-use product:

- Chemical nature: polyurethane
- Dry residue: >90%
- Color: grey
- Temperature resistance: from - 20°C up to + 80°C
- Yield: 0.70 - 0.75 m^2/Kg (for a thickness of 1 mm)

SUBSTRATE PREPARATION

The surface must be clean and dry. Applicable on:

- **Concrete**: Thoroughly clean the floor and ensure that no traces of moisture remain. (Attention: an approximate cleaning compromises the adhesion of the product)

The effectiveness of our products is based on practical experiences and research work carried out in our laboratories; nevertheless we accept no liability for work carried out following our instructions being clear that the final result depends in all cases on a series of unforeseeable factors.

* For any information about product codes or packs, please see our catalogue, our price list or contact us.

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- **Wood:** Clean thoroughly. New wooden floors usually do not require a subfloor. Compatible woods are: birch and beech plywood (usually the most used) Woods NOT compatible and where the application of GELPUR is NOT recommended are softwoods, such as fir, spruce, etc.
- **Fiberglass, Steel**: Degrease and roughen with coarse abrasive pad/scouring pad.
- **Aluminum, galvanized sheet metal**: Clean and degrease very well. Pre-treat the surface with Epoxy Primer (Z41/Z42).

In all cases where there are cracks or fractures in the subfloor, it is important to fill the voids with single-component polyurethane sealant (Gelflex line). Silicone sealants must be absolutely avoided.

Before application, preliminary tests are recommended to verify the product's compatibility with the surface to be treated, considering the wide variety of application conditions and materials available on the market.

PREPARATION OF THE MIXTURE

By weight: 100 g of Part A + 20 g of catalyst. No dilution is required.
Mix the base for 1 minute before adding the hardener.
While continuing to mix, slowly add the hardener.
Thoroughly mix the two components for at least 3 minutes. The mixture must be of a uniform color and without streaks.

WARNING: non-homogeneous mixing can generate “Islands'' of poorly or non-cured product. The mixture must be used within 15 minutes of its preparation.

POT-LIFE

At 20°C: 15 minutes

APPLICATION

Pour SELF-LEVELING GELPUR onto the floor and spread it with the aid of a notched trowel. Any waves caused by the trowel will self-level. To optimize the aesthetic effect, pass a spike roller with plastic teeth over the surface. This operation will eliminate any air bubbles trapped during application.
Working temperature: From +15° C to +25° C. At temperatures above 25°C the pot-life of the mixture shortens considerably.
DO NOT APPLY AT TEMPERATURES BELOW 10°C.

DRYING TIME

- Walkable possible after 6-8 hours
- Load bearing after 48 hours

The full chemical and physical characteristics of the product will only be reached after at least 5-20 days at a temperature of not less than 20°C. If the temperature is lower, the timeline will inevitably be extended by a few days.

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ANTI-SLIP TREATMENT

An anti-slip effect can be achieved by applying a coat of GEL-FLOOR*, 12/24 hours after the application of GELPUR.

STORAGE

Store the product in a dry environment, away from direct sunlight, at temperatures between 5°C and 30°C.

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