

GELPAV

DEFINITION

Two-component water-based epoxy coating for concrete substrates (floors, walls, tanks). It acts as a consolidant against the natural chalking of cement.

It features high hardness and mechanical and chemical resistance, making it suitable for use on industrial flooring and in warehouses. It is a low-odor, water-based product, suitable for application in closed environments; it has a pleasant, semi-gloss aesthetic finish and is available in a wide range of colors.

CHARACTERISTICS

Part A GELPAV - 2K epoxy hydropaint:

- Density: $1.50 \pm 0.03 \text{ g/cm}^3$
- Colour: neutral, white
- Non volatile content: $70\% \pm 2$
- Viscosity (Ford Cup n° 8, 20°C): 70 seconds
- Gloss: 60 ± 5 gloss

Part B GELPAV – catalyst:

- Density: $1.1 \pm 0.03 \text{ g/cm}^3$
- Colour: colourless
- Non volatile content: 100%

Ready-to-use product (undiluted):

- Chemical Nature: epoxy resin
- Dry Residue: $77\% \pm 2$
- Colour: neutral, white

SUBSTRATE PREPARATION

The product is formulated for application on concrete.

The substrate to be treated must be perfectly dry both on the surface and in depth, and must be perfectly clean and degreased. In particular, there should be no traces of wax, polish, oils, greases, or other substances that could compromise the paint's adhesion.

The surface to be painted must be well-consolidated and compact, free from loose particles, and sufficiently rough to ensure good anchoring.

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.

PREPARATION OF THE MIXTURE

By weight: 100 g of Part A + 30 g of catalyst.

Thoroughly mix the two components separately, and then mix them together in the established ratios.

The product is sold in pre-dosed packs, so it's sufficient to pour the catalyst into Part A.

Dilute with demineralized water at 20%–30% and mix thoroughly.

POT-LIFE

At 20°C: 3 hours

APPLICATION

Apply 2 coats using a brush, roller (medium/short pile), or spray gun, allowing 12 hours between the first and second coat. Wait at least 48 hours before allowing foot traffic on the treated area. Recommended dry film thickness: 100 - 130 microns.

Warnings

Avoid applying the product at a temperature below 10°C and in the presence of air relative humidity exceeding 75%. Do not apply on wet surfaces. It is necessary to perform a moisture test before starting the application**.

DRYING TIMES

- Touch-dry: 12 hours
- Complete drying: 4-5 days

The product's chemical and physical properties will be fully achieved only after at least 15-20 days at a temperature higher than 20°C. If the temperature is lower, the timeframe will inevitably be extended by a few days.

STORAGE

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

** MOISTURE TEST

Before starting the application, it is necessary to carry out a moisture test. The simplest method is to place a 1 m² polyethylene sheet on the floor and leave it in position for at least 2 days, or ideally, a week.

After this period, if the sheet is wet and the concrete has taken on a dark color, moisture is evident.

Under these conditions, it will not be possible to use GELPAV because the surface exudation would compromise its adhesion.

This occurs in the case of flooring laid on undrained ground or in inadequately ventilated rooms.

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For concrete sub-bases laid directly on the ground, it is necessary to stop the moisture from rising to the floor through appropriate measures such as a gravel bed 20-40 cm thick or a polyethylene sheet.

N.B. Water patches on aged concrete caused, for example, by spilling a bucket of water or a brief rain, do not significantly affect the chemical reaction, as happens with polyesters and polyurethanes, nor the adhesion. However, it is advisable to remove as much water as possible from the surface.

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