



Rev 0  
12/21



# IDROEPOTEK V (RAL)

Water-based epoxy varnish



## DESCRIPTION

IDROEPOTEK V is a water-based epoxy modified and pigmented epoxy varnish specifically designed for the implementation of coatings with good chemical-mechanical resistance on both concrete screeds and epoxy resinous screeds.

## COMPOSITION

The solvent-free water-based epoxy resin product, suitable for painting surfaces where it is impossible or dangerous to use solvent-based products. IDROEPOTEK V is odourless and does not release toxic, harmful or flammable fumes.

## GENERAL SPECIFICATIONS

IDROEPOTEK V is particularly suitable for the painting of floor coverings (in concrete or resin) subject to wear and easy accumulation of dust. Characterized by good mechanical properties and chemical stability, excellent aesthetic appearance and easy to decontaminate.

Its characteristics are:

- Excellent adhesion on concrete, bricks and stones;
- Resistance to pedestrian traffic and wheeled vehicles;
- wearing resistance;
- resistance to contact with many acids and alkaline chemicals;
- easy decontamination;
- excellent aesthetic appearance.

IDROEPOTEK V has many application advantages:

- it's easy and quick to implement,
- it shall not give rise to withdrawal,
- it is suitable for covering different types of supports: cement, stoneware, tiles, resin, etc.

## FIELDS OF APPLICATION

IDROEPOTEK V is specific for industrial floors where it is necessary to highlight or protect particular areas (processing areas, storage areas, corridors), especially: warehouses, food industry warehouses, production departments, shops, laboratories, canteens, exhibition halls, hospitals, breweries, slaughterhouses, drainage systems, tanning plants, nuclear plants, car parks, chemical laboratories and plants, showrooms, schools, gyms, etc.. Used for decorative finishing also on civil floors. It is also suitable as a coloured finish of high thickness epoxy screeds, self-levelling epoxy, to fill pores and to eliminate surface defects.

## TECHNICAL CHARACTERISTICS

(a 20 °C e 60% RH)

Colour	RAL folder
Appearance	semi-polished film
Dry residue by weight (%)	70 ± 2

TECHNICAL DATA SHEET



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Specific weight (A + B) kg/dm <sup>3</sup>	1,45 ± 0,03
Mixture ratio by weight A : B	100 : 25 (A = base, B = catalyst)
Pot-life A+B (working time) at 20 °C	80 min (250 g mass)
Bucholz hardness (after 7 days at +23°C)	115
Flexibility (after 7 days at +23°C)	4 mm
Application temperature	from + 7 °C to + 35 °C
Flammability	non-flammable
Dilution	usually unnecessary*

\*(possibly maximum dilution with 15% clean water according to the needs and nature of the support)

## CHEMICAL RESISTANCE

From GOOD to OPTIMAL	olive oil, water, gasoline, fruit juice, soap, milk, linseed oil, ethyl alcohol (10% conc. in total), cod liver oil, glycerol, caustic soda (at 10% conc.), grape juice, sodium chloride, lard, detergents.
MODERATE	wine, Chile saltpeter, hydrogen peroxide, glycerin, ethyl alcohol (> 10%), butyl acetate, methylisobutyl ketone.
LOW	dichloromethane, strong organic acids (e. g. oxalic, acetic, formic), inorganic acids (sulfuric, hydrochloric, nitric, hydrofluoric, etc.), methanol, phenol, formaldehyde, amines, acetone, chloroform, ethylene glycol.

## PREPARAZIONE

The components are supplied in two separate packages:

A - Base

B – catalyst

Mix components A and B separately in the respective packages; then pour component B into component A and mix mechanically for 4-5 minutes until the products are completely homogenised. Avoid taking partial quantities from the packs to prevent any errors in the ratio that would cause failure or incomplete hardening. Mixing must always be carried out mechanically at low speed (not more than 600 rpm). After mixing the components, the product is ready to use and does not need any dilution.

## APPLICATION

IDROEPOTEK V must be applied on surfaces free of any residual dirt, grease, oil, loose parts and old paints. The product must then be applied on a dry support (to avoid bubbles and detachments), clean and degreased, treated with a specific primer, depending on the support. The product can be easily applied by roller or brush or airless spray, either unaltered or diluted with 10-15% clean water.

We recommend 2 layers: apply the first coat diluted with 15% water and after about 24 hours apply the second coat with the product as it is. Apply uniformly. The application of the subsequent coats must be carried out before the first coat is completely hardened otherwise the support must be sanded with sandpaper before the next coat is applied.

Once components A and B have been mixed, the declared curing time of the product may vary depending on the outside temperature, so it is necessary to mix the quantity that will be used within this time.

## THEORETICAL PERFORMANCE

300-700 g max of product per square meter of surface area, depending on the nature of the support.

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## PACKAGING

Kits of 8 kg (A) + 2 kg (B)  
16 kg (A) + 4 kg (B)

## STORAGE

In well-sealed and intact original packaging, protected from heat and excessive cold (temperatures between +5°C and +35°C), the product can be stored for about 12 months.

## WARNINGS

Under normal conditions of use, the product is not harmful to those handling it. Do not eat, drink or smoke during application, use protective clothing such as gloves, goggles and face mask.

## LEGAL NOTES

The information contained in this leaflet, while representing the advanced knowledge, do not exempt the user from performing accurate preliminary tests in their conditions of employment and exercise. All responsibility for improper use of the product has been declined.

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