

**POLYURETHANE UV-RESISTANT VARNISH FOR CONCRETE AND STONE - MATTE - REAL 1K 200**

**PRODUCT DESCRIPTION**

**REAL 1K 200** is a single-component, polyurethane-based elastic protective varnish designed for concrete surfaces and stone carpets. It is used as an additional protective coating for both painted and unpainted concrete surfaces, and also serves as a protective layer for natural stones.

**TECHNICAL SPECIFICATIONS**

Appearance	Matte
Color	Colorless
Density (gr/ml 20°C)	1,40 ± 0,05
Mixing ratio by weight	Single-component: 100 units
Solids by weight (w/w)	% 96 ± 2
Nozzle (inch)	0,019-0,023
Application method	Air spray, airless spray, brush and roller
Open working time at +20°C	20-25 min.
Full drying time at +20°C	4-6 days



**DRYING INFORMATION (100 micron KFK)**

°C	Touch Dry	Hard Drying	Interval between layers
-5°C	12 hours	29-30 hours	24 hours
0°C	9 hours	20-21 hours	18 hours
5°C	6 hours	13-14 hours	12 hours
15°C	120-160 min.	5-6 hours	3,5 hours
25°C	80-100 min.	3-4 hours	2 hours
35°C	60-80 min.	1,5-2 hours	1,5 hours

**Note:** As the application thickness increases, consumption increases as well.

Consumption of wet film thickness (μ)	Dry film thickness (μ)	Theoretical consumption rate ± 10 (kg/m²)
<b>0071</b>	<b>0064</b>	<b>0,100</b>

**Note:** As the application thickness increases, consumption increases as well.

**REAL 1K 200** is a single-component, polyurethane-based elastic protective varnish designed for concrete surfaces and stone carpets.

Before applying of the varnish **REAL 1K 200**, the surface must be free of any moving parts that may prevent the adhesion of the product. dirt, oil, dust and paint should be removed with compressed air or sandblasting. Make sure that the floor is solid and load-bearing. The surface moisture content must be below 4% for cement based floors and below 1% for anhydrous screed coatings. Pour component B into component A first. The mixture is mixed with a low speed electric mixer until it becomes homogeneous. Pour the thoroughly mixed material into a second, clean container and mix again for one minute. The prepared mixture is applied to the floor diagonally with a roller. In order to obtain good results, it is recommended to use a lint-free parquet varnish roller as an application tool. In order to prevent roller marks, it is necessary to go over the overlapping points again after 10 minutes. During the second coat application, a maximum consumption of 100-150 gr per m<sup>2</sup> should be observed. Otherwise, foaming may occur in some areas. The applied surface should be protected from water for 24 hours after application. It is a solvent type of polyurethane topcoat paint group. It is a product that can be cured at low temperatures, has high performance in terms of anti-corrosive properties, and can be used where fast coat-on-coat and drying time is required.

## USAGE MANUAL

### Surface preparation:

The application surface is carefully cleaned from dirt, oil and grease. Loose old paint (on previously painted surfaces) is removed. Rust, dust and burrs on the surface are cleaned with diamond-tipped machine according to SA 2 ½ norms.

### Product usage:

**REAL 1K 200** should be thoroughly stirred before use until a homogeneous mixture is achieved. To prevent condensation, the product must be applied only on clean and dry surfaces with a temperature above the dew point. Varnish temperature should be between +20°C and +35°C. When using long spray hoses and varnish temperatures below +15°C, thinning may be required, which can result in a reduced layer thickness and extended drying time. Application can be carried out using a brush, roller, or spray gun. When applying by spraying, the use of a protective mask is mandatory. In enclosed areas, proper ventilation must be ensured.

## PACKAGES

### REAL 1K 200

Single-component packaging: 5 kg.

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### REAL 1K 200

Single-component packaging: 15 kg.



## SHELF LIFE

The products should be stored in its original packages in a cool and dry place. The storage life of the varnish in unopened packages is 24 months for components A and B.

## AMBIENT CONDITIONS

Ambient temperature should be between +5°C and 35°C. Do not apply when the relative humidity exceeds 80%. The surface temperature should be at least 3-5 °C above the dew point to prevent surface condensation.

It should be known that the consumption will increase in windy weather. The surface temperature should be at least - 5°C and at most 45°C.

## HEALTH AND SAFETY INFORMATION

Read the MSDS form (Material Safety Data Sheet) for necessary safety rules and warnings.

Minimum safety rules has to be followed are the follow ones.

- Contact of the paint with skin and eyes should be prevented by using gloves, protective goggles, face mask, and industrial cream.
- Ensure adequate air circulation during application and until the paint dries.
- If paint comes into contact with skin, wash with warm water and soap or industrial cleaner. If splashed into eyes, rinse with water for at least 10 minutes and seek medical attention.
- Since such materials contain flammable components, they should be kept away from sparks and naked flames. Smoking should not be allowed in the area.
- All warning notices on the buckets must be read carefully and the recommended operating rules must be observed.

\* Our information about the products is based on our own laboratory tests and research under normal conditions. Our company is not responsible for studies under unsuitable application conditions. The right to change this information is reserved by our company.

Please contact R.Y.K. for more detailed information.

Rev.No:09/Rev.Date: October 2022



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