

TECHNICAL SHEET 20.02.02-EN



HYDROSOL Polyurethane 2K interior

Highly durable two-component transparent coating

1. Description, Application

HYDROSOL Polyurethane 2K interior is a two-component water-based polyurethane coating with a transparent semi-matte appearance. It is intended for additional waterproof and mechanical protection of interior wall and ceiling surfaces that are treated with washable coatings or waterproof decorative mass HYDROSOL Decor base, and is also suitable for coating properly prepared dry concrete surfaces. The product is also suitable for the protective coating of internal walking surfaces that are treated with waterproof HYDROSOL Decor floor interior. In addition to mechanical and waterproof protection, the final film of treated walking surfaces in combination with the anti-slip agent HYDROSOL Antislip powder also ensures a low slip potential.

WARNING:

The product HYDROSOL Polyurethane 2K interior is not suitable for use on substrates that are constantly under water, e.g.: swimming pools, water tanks, etc., nor it is not suitable for use on substrates where there exists breaking in of humidity due to capillary effect.

The product is only intended for experienced professional users.

2. Technical data

Packaging (component A; component B)	2,25 kg
Density	~1.03 kg/dm ³ (component A) ~1.15 kg/dm ³ (component B)
Water dilution mass (first layer)	~10 %
Water dilution mass (second layer)	~5 %
Average consumption	~120 g/m ²
Content of vaporous substance (VOC)	<10 g/l
The EU VOC requirement - category	VP A/j
Drying time	Suitable for further treatment ~6 h

T = +20 °C, relative air humidity = 65 %			
Characteristics of a dry paint film	Suitable strength	To take average load	~5 days after painting
		To take the maximum mechanical loads	~28 days after painting
	Vapor permeability EN ISO 7783-2	coefficient μ	<22000
		value Sd (d = 100 μ m)	<2.2; class 3
	Classification according to EN13300	Resistance to wet scrubbing	resistant, class 1
	Water not absorbency (EN 14891)		<0,2 g
	Abrasion resistance (EN13813)		A<6 cm3 /50 cm2
	Slip resistance class (DIN 51130)		R 10
	Slip resistance class with additive (DIN 51130)		R 12, A
	Crack bridging ability under standard conditions (EN 14891)		>0.75 mm

3. Installation Conditions

The second or third application is possible only on a completely dry previous layer - under normal conditions (T = +20 °C, relative humidity = 65%) this is at least 6 hours and no more than 24 hours after the application of the previous layer. At lower temperatures and high relative air humidity, the drying time is longer, and at higher temperatures and lower relative air humidity, it is shortened, e.g.: at T = +10 °C and rel. vl. air 65% for at least 24 hours and no more than 48 hours, at T = +30 °C and rel. vl. air 65% for at least 4 hours and no more than 48 hours. The relative air humidity between application and cross-linking must not exceed 75%.

4. Surface Preparation

The surface should be solid, dry and clean, without any badly adhered particles, dust, salts that are easily soluble in water, fat linings and other filth. Hoover or sweep dust and other non-adhered filth, and wash away the non-decomposed remains of paneling oils from concrete surfaces with a high-pressure water blaster (hot water or steam). It is obligatory to disinfect surfaces infected with wall mould prior to applying the levelling compound.

Prior to the application of a levelling compound, the newly applied base-coats have to dry or mature at least 7 to 10 days for each cm of their thickness. The levelling compound is applied to new concrete surfaces only a month after concreting (stated drying times of the surface are valid in normal conditions: T = +20 °C, RH = 65 %). Moisture in concrete or other mineral substrates must not exceed 3%.

5. Preparation of Compound for Application

The coating is prepared by mixing well-mixed components A and B. When preparing smaller quantities, consider that components A and B are mixed in a weight ratio of 3.5 (A) : 1 (B). Mix the resulting mixture well until it becomes completely homogeneous. For the first application, the coating can be diluted up to 10% with water, but the dilution for the second layer should not be higher than 5%.

After mixing components A and B, the pot life (working time) is up to 80 minutes at 20°C and 65% relative humidity.

This time limit must not be exceeded, as doing so may result in changes to the gloss level and colour, as well as reduced mechanical strength and loss of adhesion to the substrate.

In the case of coating walking surfaces, where we want to achieve a lower sliding potential, add 7 % of the HYDROSOL Antislip powder additive to the prepared mixture.

NOTE: Prepare only as much of the mixture as is needed for one application and use it completely. Do not store the prepared mixture.

6. Application of Compound

The coating is applied in two (exceptionally also in three) layers with a brush or a short-haired painter's roller (the length of the hair or thread is 10 - 13 mm; natural and artificial fur or textile coverings made of various synthetic threads - velor or nylon can be used), with a suitable painter's brush for applying dispersion wall paints or by spraying.

When applying with a roller, use a suitable drainage net.

For spraying, we can use classic high-pressure and modern low-pressure guns of various types (with "external" or "internal air mixing"), as well as "airless" aggregates of various designs, with regard to the selection of the diameter of the spray nozzles and working pressure, we follow the manufacturers' instructions. Each wall surface is painted without interruption from one end to the other. For a standard long-haired paint roller or spray gun for spraying inaccessible surfaces (corners, corners, gutters, narrow slats, etc.), regardless of the above, we always treat each paint application first, and we help ourselves with suitable brushes or smaller paint rollers adapted to the given conditions.

WARNING: Treated surfaces that are not older than 7 days (from coating with HYDROSOL Polyurethane 2K interior) should not be cleaned with detergents, nor should they be overburdened with water.

Thoroughly clean the tools with water immediately after use.

7. Storage, Transportation Conditions and Durability

Store in dry and airy places! Storage and transport at temperature +5 °C to +25 °C, keep out of direct sunlight, out of reach of children, IT MUST NOT FREEZE!

Shelf life when stored in an originally sealed and undamaged packaging: at least 12 months

8. Other Information

Technical instructions are given based on our experiences and are given as a guideline for achieving optimal results. We cannot take any responsibility for the damage, caused by incorrect selection of a product, incorrect use or unprofessional work. JUB also bears no responsibility in cases where the substrate for the application of our products is prepared inadequately or with materials of inadequate quality from other manufacturers. In the case of applying our products to existing substrates of old coatings or pre-prepared substrates with materials from other manufacturers, it is obligatory to make appropriate test fields with all the intended applications of JUB products, in accordance with the technical instructions, before starting the work.

Safety measures: Follow the instructions on the safety data sheet of the product.

This technical sheet supplements and replaces all preceding editions. JUB reserves the right to change and supplement data in the future.

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