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TECHNICAL SHEET 07.01.05-EN

TAKRIL Epoxy 2K garage

Two-component epoxy concrete paint

1. Description, Application

TAKRIL Epoxy 2K garage is a two-component, coloured, water-based epoxy topcoat with smooth or non-slip surface. It could be applied on normal to medium load-bearing concrete and cement screed surfaces, such as production areas, warehouses, workshops, production halls, laboratories, sports facilities, commercial facilities etc. The product is suitable for application on non-horizontal mineral surfaces, too. It constitutes coating system with thickness of 0,3-0,5 mm if applied in several layers.
Note 1: It is not intended for usage in the outdoor conditions, directly exposed to sunlight.

2. Sertificates

Coating applied in system for concrete protection according to EN 1504-2; Conforms EU requirements (CE Marking);
Synthetic resin screed material according to EN 13813; Reaction to fire classification according to EN 13501-1.

3. Technical data and physical properties

Available in shades: RAL 7040, RAL 7032, RAL 1001

Characteristics	Component A	Component B	A + B mixture
Packaging	A: 5 l – 4.5 kg B: 1 l – 0.9kg A + B = 5.4 kg, A : B = 5 : 1		
Composition	Polyamine curing agent, fillers, pigments, additives, water	Epoxy resin	Mixture of epoxy resin and hardener
Solids, wt.%	55	95	63
Volatile Organic Content (VOC), g/l	EU VOC (EZ 2004/42): A/j<140		

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Density, g/cm³	**EN ISO 2811-1 (23 °C)**	1.41	1.11	1.34
Viscosity, mPa s	**EN ISO 3219 (RV3/20 rpm/23 °C)**	600	1050	1200
Adhesion strenght, MPa	**EN 1542**	> 2 (concrete failure)		
Shore D hardness	**DIN 868 (7 days /23 °C)**	70		
Abrasion Resistance, mg	**EN ISO 5470-1 (7 days/23 °C/H22/1000 cycles/1000g)**	690		
Impact strenght, Nm	**EN ISO 6272-1**	> 4		
Capillary absorption and permeability to water (Liquid water transmission rate, kg/m2/h1/2)	**EN 1062-3**	< 0.01 (class 3 - Low)		
Water vapour permeability (Equivalent air layer thickness Sd, m)	**EN 7783**	34 (class 2 - medium water vapour permeability) (EN 1504-2)		
Permeability to CO2 (Equivalent air layer thickness Sd, m)	**EN 1062-6**	> 50		
Reaction to fire	**EN 13501-1**	Bfl – s1		
Grip/slip resistance for non slip surface	**EN 13036-4**	> 55 units, tested in a wet state (class 3) (EN 1504-2)		

4. Substrate quality and pre-treatment

The surface of substrate (concrete, cement screeds) must be dry, clean, have no crumbling or detached portions and free of all contaminants such as dirt, oil, grease, coatings etc. The substrate must have minimal compressive strenght of 25 MPa and minimal tensile strenght of 1.5 MPa (Pull-off test). The substrate must have moisture below 6% wt.% (test with moisture meter) and no capillary rising water (test with polyethylene sheet).
Apply the suitable mechanical processes (grinding, sandblasting or shot blasting) to remove dirt and to make surface slightly roof for adequate adhesion bonding. After activation of the surface, it is necessary to vacuum the surface. Cracks and holes must be filled with epoxy adhesive (mixture of JUBOFLOOR Epoxy WB primer/JUBOFLOOR Epoxy WB primer F and additive-thickener) and high spots eliminated before application of the coating.
Cement screeds must be equalized with impregnating agent JUKOL Primer (water dilution ratio ratio 1 :1), which leads to lower and more uniform absorption (consumption) of coating by screed.

Substrate temperature, °C		**Air temperature, °C**		**Substrate moisture content, wt.%**	**Relative air humidity, %**
Min.	**Max.**	**Min.**	**Max.**		
+ 10	+ 30	+ 10	+ 30	≤ 6	< 80

5. Preparation of product and application guidelines

The preparation of product implies the mixing of exactly pre-packed component A (epoxy resin) and component B (hardener) with electrical mixer. First, stir the component A for a few minutes and then add the component B. The A+B mixture must be slowly stirred for 2-3 minutes to obtaine the homogenous mixture.
Smoot surface topcoat:
Stir the A+ B mixture of TAKRIL Epoxy 2K garage for a few minutes. Pour the product onto the primed (TAKRIL Epoxy 2K garage diluted with 5 wt.% of water) concrete floor and spread it out evenly on the with a short-piled nylon roller.
Non-slip surface topcoat:

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Apply the the A+B mixture of TAKRIL Epoxy 2K garage onto the primed (TAKRIL Epoxy 2K garage diluted with 5 wt.% of water)) concrete floor and spread it out evenly on the surface with a roller. As soon as the product has been applied broadcast with specified quartz sand (Jubofloor Sand KF 0.2-0.4) to provide non-slip surface. Further, remove the excess sand from the cured coating by using sandpaper, and remove the dust with a vacuum cleaner. Additionaly, apply the 2 layers of TAKRIL Epoxy 2K garage product with a roller.
The application guidelines are presented in the tables below.
Note 2: The substrate and coatings must be at least 3°C above dew point, with relative air humidity below 80 %, to reduce the risk of condensation on the floor finish

Temperature, ºC	Working time (pot life) [min]	Waiting time for the next layer application	
		Min. [hours]	Max. [days]
+ 10	110	48	7
+ 20	90	20	6
+ 30	75	6	3
Temperature, ºC	**Return to service (pedestrian traffic) [hours]**	**Return to service (light traffic) [days]**	**Return to service (uses without restrictions) [days]**
+ 10	24	6	10
+ 20	20	3	7
+ 30	10	2	5

6. Utility of the product in the system

Note 3: The product consumption is indicative and determinated by substrate porosity, temperature etc. In case of insufficient coverage, apply another layer of TAKRIL Epoxy 2K garage. The TAKRIL Epoxy 2K garage consumption when applied in vertical surfaces is 0,15-0,20 kg/m2 per layer.

System	Type of application	Number and type of layers	Consumption per layer
Primer	Roller	1 x TAKRIL Epoxy 2K garage diluted with 5 wt.% of water	0.15 - 0.2 kg/m²
Topcoat (smooth surface)	Roller	1 x TAKRIL Epoxy 2K garage	0.2 - 0.25 kg/m²
Topcoat (non-slip surface)	Roller	1 x TAKRIL Epoxy 2K garage	0.2 - 0.25 kg/m²
	Broadcast	Jubofloor Sand KF 0.2-0.4	2 - 3 kg/m²
	Roller	2 x TAKRIL Epoxy 2K garage	0.2 - 0.25 kg/m²

7. Health and safety measures

During handling with TAKRIL Epoxy 2K garage it is necessary to take health and safety measures advised on the label and reffered in the Safety Data Sheet (SDS). TAKRIL Epoxy 2K garage component B is irritant for the eyes and skin, component A is corrosive and may cause burns; furthermore, it is hazardous if swallowed. When using product it is recommended to provide adequate ventilation in the object, wear protective gloves and goggles and to take the usual precautions for handling chemicals. In case of contact with the eyes or skin wash immediately with plenty of clean water and seek medical attention. TAKRIL Epoxy 2K garage components A and B are dangerous for aquatic life and do not dispose of them in the environment. Cured epoxy coating is expected to be inert in the environment. For additional information look at SDS.

8. Storage, Transportation Conditions and Durability

The product must be stored in its original packaging in a dry place, protected from sunlight, at temperature range 10 - 30 °C and for maximum 18 months.

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9. 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. We reserve the right to change and supplement data in the future.

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Repainted surfaces are resistant to the effects of various aggressive liquids for a short or long time – see the table below:

Substance	Persistence of the color film under the influence of the medium at T = +20 ºC (DIN 53168)			
	1h	1 day	7 days	30 days
Acetic acid, 3%	+	-	-	-
Lactic acid, 5%	+	-	-	-
Tartaric acid, 5%	+	+	+	-
Citric acid, 3%	+	+	+	-
Sulfuric acid, 40%	+	-	-	-
Sodium lye, 20%	+	+	+	+
Sodium chloride, 20%	+	+	+	+
Hydrochloric acid, 10%	+	-	-	-
Gasoline	+	+	+	+
Kerosene	+	+	+	+
Diesel oil	+	+	+	+
Fuel oil	+	+	+	+
Vegetable oil	+	+	+	+
White spirit	+	+	+	+
Brake oil	+	+	-	-

*+ persistent, - non persistent

* In the case of certain shades, the effect of the chemical may cause a change in shade.