

Alkepoks 483

PRODUCT IDENTIFICATION	ALKEPOKS 483 Epoxy Selflevelling conductive coating Epoxy based, electrostatic conductive, 2-component self-leveling colored top coat.
PRODUCT SPECIFICATIONS	Prevents static electricity condensation, Antibacterial, Easy to clean, Protects occupational and worker health with a monolithic (continuous, single piece) structure, Semi-slip and impermeable, Aesthetic looking conductive floor covering material.
USAGE AREAS	It is used safely in digital data storage areas, battery charging rooms, areas where sensitive electronic devices are located, explosive production and storage areas, pharmaceutical factories, food facilities and similar areas where static electricity needs to be eliminated.
PRODUCT CERTIFICATES	Quality management system ISO 9001 : 2015 Environmental management system ISO 14001 : 2015 Occupational health and safety system ISO 45001 :2018 CE (AT Declaration of Conformity) IDS.CE.19152.1 Brand Registry / No : Turkish Patent Institute 20145804 This product is manufactured in accordance with the EC Construction Materials Directive 305/2011.
WARNING	<u>Please read this sheet to the end.</u> Alkepoks 202 Epoxy Selflevelling is suitable for use only with the support of trained, professional team and specialized equipment.

PRODUCT INFORMATION	EPOXY
Package	A Component (Alkepoks 483 Self-leveling Conductive Epoxy Coating) = 21 Kg Tin Bucket
	B Component (Alkepoks 483 Conductive Topcoat Hardener) = 4 Kg Tin Bin
	A + B Component. = 25 kg set
Appearance/Color	A Component Resin = Colorful, liquid
	B Component Hardener = Yellowish, liquid
Shelf Life	Shelf life is 12 months from the date of production.
Storage	The product should be stored in its original, unopened and undamaged packaging, in a dry and sunless environment between +5 °C and +30 °C.
Consistency	A Component (Alkepoks 483 Self-leveling Conductive Epoxy Coating) = 1,70 g/cm3
	B Component (Alkepoks 483 Conductive Topcoat Hardener) = 1,03 g/cm3
	Mixture = 1,54 g/cm3
	Filled Resin Mixture (Quartz 30%) = 1,76

All values are made in accordance with DIN EN ISO. 2811-1 standards (23 °C ' 100 ml Pyknometer).

Solid Matter	A Component (Alkepoks 483 Self-leveling Conductive Epoxy Coating) = % 97
	B Component (Alkepoks 483 Conductive Topcoat Hardener) = % 97

TECHNICAL INFORMATION

Physical Strenght

Hardness	~78 /DIN 53505 (7 Days +23 °C / %50 Relative Humanity)	- DIN 53505
Compression Resistance	~52 N/mm ² / (02-05mm quartz %30 Alkepoks 483)	- EN. 196-1
Abrasion Resistance	~35mg / Taber (10X10)	-ASTM D4060
Hold on	~1,5 N/mm ² / (Rupture in concrete)	-EN 4624
Tension Bending Force	~40 N/mm ² /	- EN 196-1

Electrical Resistance Values

Ground Resistance (Discharge)	Rg ≤ 10 ⁹ Ω	(IEC 61340-4-1)
Resistance of All Layers	Rg < 10 ⁶ Ω	(DIN EN 1081)

Thermal Resistance

Temperature	Resistance Duration	Moisture
Until +50 °C	Continual	Mostly %80
Until +80 °C	7 Days	Mostly %80
Until +100 °C	12 Hours	Mostly %80

Warning: Withstands temperatures between +80 °C and +100 °C; short-term, ambient temperature of at least +15 0C and without simultaneous physical or chemical effects.

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APPLICATION TERMS and SYSTEM INFORMATION

Application Terms

Reinforced concrete surface Alkepoks 355 Resin impregnation (primer) process should be applied by fulfilling the system conditions, and a continuous, non-porous, smooth and clean surface should be provided. See (Alkepoks 355 Epoxy Primer Resin)

Ambient humidity and temperature during application

Ambient Temperature: +10 °C and +30 °C

Surface Temperature: +10 °C and +30 °C

Relative Humidity: Mostly %80

Dew Point: Pay attention to condensation during application and drying. Use a psychrometer for condensation point detection, the floor temperature should not be more than +3 °C above the condensation point.

Avoid low temperature (below +15 °C) and high humidity (above 50%) and nighttime application when you cannot determine the dew point.

Product Preparation for Use

Mix Alkepoks 438 Epoxy Conductive Primer A component with low speed (300-400 rpm) mixers, slowly add B component during mixing and mix for 1 - 2 minutes. After the mixture is completed, transfer to another clean container and mix again for 1 - 2 minutes.

SYSTEM INFORMATION

Alkepoks 438 Epoxy Conductive Primer	<u>Consumption</u> = 0,080 - 0,100 kg/m ² Application: Roller
(Alkepoks 483 Self-leveling Conductive Epoxy Coating)	<u>Consumption: A+B+C.</u> = 2,100 kg./m ² (+, - 0,200 kg) Application: Steel toothed trowel

ALKEPOKS 483 ANTISTATIC EPOXY SELFLEVELING FLOOR COATING

On the continuous non-porous, clean and smooth surface with impregnation (primer application) process completed in accordance with the coating to be made (See Alkepoks 355 Epoxy primer) without waiting for the ground whose surface preparation is completed;
 1 earthing kit should be used in every 100 m² open area, 1 earthing kit should be applied in each section in areas interrupted less than 100 m, then apply Alkepoks 438 Epoxy Conductive Primer with a consumption range of 0.080 - 0.100 kg / m² with a roller and wait for 1 day;
 Mix Alkepoks 483 Epoxy Antistatic Selfleveling 30% with 01-03mm quartz sand and apply with a steel toothed trowel with a consumption of A + B + C = 2.1 kg / m², then walk on it with the help of studded shoes and comb it with a spiked roller.

DRY PROGRAM

Alkepoks 483 Self-leveling Conductive Epoxy Coating	+10 °C	+20 °C	+30 °C
Container Time (Product usage time)	60 min.	30 min.	15 min.
Touch dry time (No dust)	12 hr.	8 hr.	4 hr.
Installation Dry Time (New coat application time)	48 hr.	24 hr.	12 hr.
Drying Time (Pedestrian and light forklift traffic)	3 Days	2 Days	1 Day
Curing Time (Full dry chemical resistance)	10 Days	7 Days	7 Days

The data are measurements made in a 60% relative humidity environment and are approximate.

CLEANING OF EQUIPMENTS

All equipment used during application should be cleaned with thinner immediately after use. The hardened material must only be removed by mechanical means (do not burn, do not use highly abrasive chemicals).

All residual materials and empty containers must be disposed of in accordance with national regulations and legislation.

DATA BASIS

The information given in this product data sheet has been obtained under laboratory conditions or by knowledge, observation and experience. Conditions that we cannot control during implementation may change the data results. For this reason, this information provided in good faith as advice is not legally binding.

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