

PRODUCT TECHNICAL DATA SHEET



Alkepoks 202

PRODUCT IDENTIFICATION	ALKEPOKS 202 SELFSMOOTHING EPOXY COATING 2-Component self-leveling color topcoat for epoxy floor coatings.	
PRODUCT SPECIFICATIONS	Solvent free. Creates hygiene areas with its antibacterial feature. Easy to clean. High physical and chemical resistance. Semi-non-slip and impermeable, Monolithic (continuous, one-piece) structure that protects occupational and worker health. Aesthetic looking industrial flooring material.	
USAGE AREAS	All floors where antibacterial floors are needed for hygiene areas such as pharmaceutical and food production facilities. Factories, production facilities, warehouses, multi-storey parking lots, exhibition halls and foyers where aesthetic appearance is needed and similar areas.	
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.	
PRODUCT INFORMATION	EPOXY	
Package	A Component (Alkepoks 202 Selfsmoothing epoxy coating) = 20 Kg Tin Bucket	
	B Component (Alkepoks 535 Topcoat Epoxy Hardener)	= 5 Kg Tin Bin
	A + B Component.	= 25 kg set
Appearance/Color	A Component Resin	= Clear, liquid
	B Component Hardener	= Clear, liquid
Shelf Life	Shelf life is 24 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 202 Selfsmoothing epoxy coating) = 1,45 g/cm3 (+,- 0,1)	
	B Component (Alkepoks 535 Topcoat Epoxy Hardener)	= 1,05 g/cm3
	Mixture	= 1,35 g/cm3 (+,- 0,1)
	C Component (02-05mm Quartz)	= 2,65 g/cm3 (+,- 0,1)
	A+B+C Mixture	= 2,00 g/cm3 (+,- 0,1)
All values are made in accordance with DIN EN ISO. 2811-1 standards (23 ° C ' 100 ml Pycnometer).		
Solid Matter	A Component (Alkepoks 202 Selfsmoothing epoxy coating)	= %100
	B Component (Alkepoks 535 Topcoat Epoxy Hardener)	= %100

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Physical Strenght

Rigidity	~78 DIN 53505 (7 Days +23 °C / %50 Relative Humidity)	- DIN 53 505
Compression Resistance	~52 N/mm ² (Alkepoks 202 Selfsmoothing Epoxy Coating)	- EN 196-1
Abrasion	~30 mg (CS 10/100/1000) 7 Days /+23 °C	- DIN 53 109
Pull Off	~1,5 N/mm ² (Rupture in Concrete)	- ISO 4624
Tensile Force in Bending	~20 N/mm ² (02-05mm quartz %10 - 28 Days)	- EN. 196-1

Chemical Strenght

Chemicals	Result
Sulfuric Acid	A (%20 Concentration)
Nitric Acid	A (%5 Concentration)
Methylene Chloride (DCM)	D -
Hydrochloric Acid	A (%5 Concentration)
Acetic Acid	A (%5 Concentration)
Acetone	E -
Ammonia	B (%40 Concentration)
Hydrazine Hydrate	C -

A= Very Durable B= Durable C= Slightly Durable D = Not Durable E= Very Not Durable
 (Request chemical resistance table for different chemicals.)

THERMAL RESISTANCE

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

Warning: It can withstand temperatures between +80 °C and +100 °C for short periods of time and when the ambient temperature is at least +15 °C and without simultaneous physical or chemical effects.

Application Terms		
<p>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)</p> <p>Ambient humidity and temperature during application</p> <p>Ambient Temperature: +10 °C and +30 °C Surface Temperature: +10°C and +30°C Relative Humidity: Mostly %80 Dew Point: Attention to condensation during application and drying Please check. Use psychrometer for condensation point detection, the floor temperature must not be above +3 °C above the condensation point.</p> <p>Avoid low temperature (below +15 °C), high humidity (above 50%) and at night when you cannot determine the dew point.</p>		
Product Preparation for Use		
<p>Mix component A with a low speed (300-400 rpm) mixer, slowly add component B during mixing and mix for 1 - 2 minutes. After the mixture is complete, transfer it to another clean container and mix again for 1-2 minutes. If quartz sand is to be added, slowly add it to the mixture and mix for another 1-2 minutes.</p>		
SYSTEM INFORMATION		
System and Consumptions		
001.E-SELFLEVELLING EPOXY COATING (ECONOMIC AND SELFLEVELLING)		
Consumptions and Thickness	Consumption :	1,250-1,600 kg/m ² = 1mm = 1,450 kg./m ²
	Application :	Steel toothed trowel
<p>Without waiting for the surface to be prepared, apply Alkepoks 202 Self-Leveling Epoxy Coating to a continuous, non-porous, clean and smooth surface that has been impregnated (primer application) in a manner suitable for the coating to be applied (See Alkepoks 355 Epoxy Primer); Apply Alkepoks 202 Self-Leveling Epoxy Coating with a steel-toothed trowel at a consumption range of 1,250 - 1,600 k/m2, walk on it with the help of a spiked shoe and comb it with a spiked roller.</p>		
01- SELFLEVELLING EPOXY COATING (SELFLEVELLİG)		
Consumptions and Thickness	Consumption A+B+C = 10+2,5+25 = 5kg/m ² :	1m m = 2,00 kg./m ²
	Application:	Steel toothed trowel
<p>Without waiting for the surface to be prepared, apply Alkepoks 202 Self-Leveling Epoxy Coating to a continuous, non-porous, clean and smooth surface that has completed the impregnation (primer application) process in a manner suitable for the coating to be applied (See Alkepoks 355 Epoxy Primer); mix 50% Alkepoks 202 Self-Leveling Epoxy Coating with 01-03mm quartz sand (A+B = 2.5 kg/m2; C = 2.5 kg/m2) with a steel-toothed trowel with a consumption of 5 kg/m2, then walk on it with the help of spiked shoes and comb it with a spiked roller.</p>		

002-SELFSMOOTHING EPOXY COATING (SELFSMOOTHING)

Consumptions and Thickness	Consumption: 0,500 - 0,750 kg/m ² (0,350-0,500 mm.)
	Application: Steel toothed trowel.

Without waiting for the surface to be prepared, apply Aikepoks 202 Self-leveling epoxy coating to a continuous, non-porous, clean and smooth surface that has been impregnated (primer application) in a manner suitable for the coating to be applied (See Aikepoks 355 Epoxy Primer); Apply with a steel-toothed trowel at a consumption range of 0.500 -0.750 k/m2 and walk on it with the help of a spiked shoe and comb with a roller.

DRY PROGRAM

ALKEPOKS 202 SELFLEVELLING EPOXY COATING	<u>+10 °C</u>	<u>+20 °C</u>	<u>+30 °C</u>
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.