ALKEBA PAINT & COATING

Alkepoks 627

PRODUCT IDENTIFICATION	ALKEPOKS 627 CLEAR EPOXY RESIN 2-Component self-levelling coloured topcoat for epoxy 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 floor covering material.
USAGE AREAS	It is used in Pharma terrazzo and Terrazzo coatings, in the final layer of decorative floors; and in the manufacture, coating and protection of external decorative objects.
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 627 Clear Epoxy Resin)	= 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 627 Clear Epoxy Resin)	= 1,10 g/cm3 (+,- 0,1)
	B Component (Alkepoks 535 Topcoat Epoxy Hardener)	= 1,05 g/cm3
	Mixture	= 1,08 g/cm3 (+,- 0,1)
All values are made in accordance with DIN EN ISO. 2811-1 standards (23 ° C ' 100 ml Pyknometer).		
Solid Matter	A Component A Component (Alkepoks 627 Clear Epoxy Resin)= %100	
	B Component (Alkepoks 535 Topcoat Epoxy Hardener)	= %100

PRODUCT TECHNICAL DATA SHEET

Physical Strenght

Rigidity	~77 DIN 53505 (7 Days +23 °C / %50 Relative Humidity)	- DIN 53 505
Compression Resistance	~85 N/mm² (02-05mm quartz %10 Alkepoks 627 Resin)	- EN 196-1
Abrasion	~22 mg (CS 10/100/1000) 7 Days /+23 °C	- DIN 53 109
Pull Off	~1,5 N/mm² (Rupture in Concrete)	- ISO 4624
Tensile Force in Bending	~25 N/mm² (02-05mm quartz %10 - 28 Days)	- EN. 196-1

Chemical Strenght

Chemicals	Sonuç	
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 ^{0}C	Continual	(Moisture mostly %80)
Until +80 ^{0}C	7 Days	(Moisture mostly %80)
Until +100 ^{0}C	12 Hours	(Moisture mostly %80)

Warning: It can withstand temperatures between +80 ^{0}C and +100 ^{0}C for short periods of time and when the ambient temperature is at least +15 ^{0}C and without simultaneous physical or chemical effects.

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 ^{0}C and +30 ^{0}C
Surface Temperature: +10 ^{0}C and +30 ^{0}C
Relative Humidity: Mostly %80

Dew Point: Attention to condensation during application and drying

Please check. Use psychometer for condensation point detection, the floor temperature must not be above +3 ^{0}C above the condensation point

Avoid low temperature (below +15 ^{0}C), high humidity (above 50%) and at night when you cannot determine the dew point.

Product Preparation for Use

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.

SYSTEM INFORMATION

Alkepoks 627 Epoxy Clear Resin is a product with a very wide range of applications. Below are 2 examples of coating applications. For external applications, please contact your supplier.

005-TERRAZZO EPOXY COATING

Consumptions and Thickness	Alkepoks 627 Clear Epoxy Resin :	2,500 kg/m^2 (2,31mm)
	Alkesil 085 Colorful Quartz 08-1,0mm :	10,00 kg/m^2. (3,77mm)
	Application: Reference strips, calender, snowshoes, trowel, gauge.	

Without waiting for the surface preparation to be completed, the impregnation (primer application) process to be completed in a manner suitable for the coating to be made (See Alkepoks 355 Epoxy Primer) is applied to the continuous, non-porous, clean and smooth surface;

Alkepoks 627 Clear Epoxy Resin 2.5 kg/m2 + 10 kg Alkasil colored quartz is turned into mortar and poured onto the ground between 6 mm reference strips. It is leveled with a trowel and a float.

After pouring, the reference strips are removed from the ground and the gaps formed are filled with mortar. Then it is leveled again with a finishing machine. In this process, the personnel should wear snowshoes and work without leaving any traces on the coating.

After the coating dries, Alkepur 576 protective mat varnish should be applied with a consumption of 0.100 kg/m2.

006-EPOXY TERRAZZO COATING		
Consumptions and Thickness	Alkepoks 627 Clear Epoxy Resin:	5,00 kg/m^2 (4,63 mm)
	Aggregate :	20,00 kg/m^2. (7,54mm)
	Application: Reference strips, calender, snowshoes, trowel, gauge, diamond grinding.	

Without waiting for the surface preparation to be completed, the impregnation (primer application) process to be completed in accordance with the coating to be made (See Alkepoks 355 Epoxy Primer) is applied to the continuous, non-porous, clean and smooth surface;

Alkepoks 627 Clear Epoxy Resin 5 kg/m2 + 20 kg Aggregate is turned into mortar and poured onto the ground between 12 mm reference strips. It is leveled with a trowel and a straightedge.

After pouring, the reference strips are removed from the ground and the gaps formed are filled with mortar. Then it is leveled again with a finishing machine. In this process, the personnel should wear snowshoes and work without leaving any traces on the coating.

After the coating dries, the ground should be wiped with diamond blade polishing machines until it is polished, and Alkepur 576 protective glossy varnish should be applied to the smoothed ground with a consumption of 0.50 kg/m2.

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

DRY PROGRAM

Alkepoks 627 Clear Epoxy Resin	+10 °C	+20 °C	+30 °C
Container Time (Product usage time)	120 min.	90 min.	30 min.
Touch dry time (No dust)	20 hr.	10 hr.	6 hr.
Installation Dry Time (New coat application time)	72 hr.	48 hr.	20 hr.
Drying Time (Pedestrian and light forklift traffic)	5 Days	3 Days	2 Days
Curing Time (Full dry chemical resistance)	9 Days	8 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.