PRODUCT TECHNICAL DATA SHEET

Alkepur 517

PRODUCT IDENTIFICATION	ALKEPUR 517 SELF-LEVELING POLYURETHANE COATING Polyurethane based 2-component self-leveling color coating
PRODUCT SPECIFICATIONS	Solvent free. Semi-flexible 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 can be safely used indoors and outdoors in schools, gymnasiums, exhibition areas, libraries, dining halls and similar areas thanks to its UV resistant protective layer.
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	POLYURETHANE	
Package	A Component (Alkepur 517 Self-leveling Polyurethane Coating)	= 20 Kg Tin Bucket
	B Component (Alkepur 562 Polyurethane Topcoat Hardener)	= 5 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 (Alkepur 517 Self-leveling Polyurethane Coating)	= 1,50 g/cm3 (+,- 0,1)
	B Component (Alkepur 562 Polyurethane Topcoat Hardener)	= 1,05 g/cm3
	Mixture	= 1,38 g/cm3 (+,- 0,1)
	C Component (02-05mm Quartz)	= 2,65 g/cm3 (+,- 0,1)
	A+B+C Mixture	= 1,82 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 (Alkepur 517 Self-leveling Polyurethane Coating)	= % 98
	B Component (Alkepur 562 Polyurethane Topcoat Hardener)	= % 98

Alkepur 517

Physical Strenght

Rigidity	~72 DIN 53505 (7 Days +23 °C / %50 Relative Humidity)	- DIN 53 505
Compression Resistance	~48 N/mm² (02-05mm quartz %10 Alkepoks 355 Resin)	- EN 196-1
Abrasion	~38 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	~55 N/mm² (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)	C	-
Hydrochloric Acid	B	(%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 +45 ^{0}C	Continual	(Moisture mostly %80)
Until +80 ^{0}C	7 Days	(Moisture mostly %80)
Until +100 ^{0}C	8 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

System and Consumptions

010- POLYURETHANE FLOOR COATING

Consumptions and Thickness	Consumption :	1,500-1,600 kg/m^2	1mm = 1,350 kg./m^2
	Application :	Steel toothed trowel	

Without waiting for the surface preparation, on a continuous non-porous, clean and flat surface with impregnation (primer application) completed in accordance with the coating to be made (See Alkepoks 355 Epoxy primer); Apply Alkepur 517 Self-leveling Polyurethane Coating with a steel toothed trowel at a consumption range of 1,500 - 1,600 k/m2, walk on it with the help of studded shoes and comb it with a spiked roller.

DRY PROGRAM

ALKEPUR 517 SELF-LEVELING POLYURETHANE COATING	+10 °C	+20 °C	+30 °C
Container Time (Product usage time)	60 min.	30 min.	20 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	3 Days	2 Days
Curing Time (Full dry chemical resistance)	10 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.