



POLISEAL AIRPORT

ELASTIC SELF-LEVELLING SYSTEM
WITH POLYURETHANE RESINS
FOR FLOORING UP TO 3 mm THICK

DESCRIPTION

POLISEAL AIRPORT polyurethane formula two-component (A+B), fluid, coloured and solvent-free. The components are supplied pre-dosed, to which part C can be added.

FIELDS OF USE

Self-leveling flooring in all environments where thermal variations are possible or where, for particular service needs, a flexible flooring is required e.g. slabs, car parks, offices etc.

External flooring also subject to traffic with rubber wheels.

CHARACTERISTICS

- Excellent self-leveling properties.
- Elastic lining.
- Excellent resistance to thermal variations.
- Excellent traffic resistance with rubber wheels.
- Applicable from + 5 °C.
- Working temperature from - 30 to + 75 °C

CHEMICAL RESISTANCE

Excellent resistance to water, diluted bases, oils and hydrocarbons. Good resistance to diluted acids and solvents.

IMPORTANT NOTES

- Do not apply on wet substrates
- Do not apply if adhesion primer has hardened



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APPLICATION

POLISEAL AIRPORTIt is a two-component product that must be mixed very carefully at the time of use. It is recommended to proceed as follows: pour comp. B into comp. A and then mix with a low-speed drill. Then pour the mixed contents into another container, paying particular attention to transferring all the product from the first container to the second, including that present on the walls and bottom of the first container, and then mix briefly again. This way you have a perfect mix without even minimal quantities of unmixed product, which could compromise the aesthetics of the flooring. To obtain a good aesthetic and functional result, the preparation of the support is essential, therefore the surface to be treated must be free from any pollutant, dry, coherent and must have a surface tear resistance of at least 1.5 MPa. In any case, it is necessary to carry out the surface preparation of the flooring by sanding or shot peening or milling depending on the type of surface.

Any repairs to the concrete must be carried out in advance, taking care to saturate the repair with quartz. Prepare the flooring by applying APSEPRIMER NS 125 as a primer, smoothing the surface, then dusting with 0.1 ÷ 0.3 mm quartz.

On the hardened product, remove the excess not coated, then apply the product with a spatula. POLISEAL AIRPORTin sufficient quantity to obtain the desired thickness, taking care to pass the bubble-breaking roller repeatedly as soon as the application is complete.

Apply the VERNILUX POL finish after 12 hours minimum, 24 hours maximum.

Depending on the type and intensity of traffic to which the flooring is subjected, it is possible to increase the abrasion resistance by finishing the surface with non-slip finishes added with suitable aggregates (consult the technical service).

TECHNICAL DATA

Color	: RAL table*	
Viscosity	: 8,000 ± 1,000	mPa*s
Specific weight	: 1.45 ± 0.05	g/cm ³
Catalysis ratio	comp. A : 100	parts by weight
	comp. B : 20	parts by weight
Useful life at 25°C	: 30	minutes
Dry to the touch	: 5	hours
Can be done with caution	: 12	hours
Breaking load	: 8 ± 1	MPa
Break Elongation	: 80 ± 5	%
Hardness	: 89/38	Shore A/D
Tear resistance:	28 ± 2	KN/m
Consumption	: 1450 g/m ² equal 1000µm thick.	

* The product tends to yellow over time, provide aliphatic finishing.

CONSUMPTION

Approximately 19 kg/m² per
centimetre of thickness

PACKAGES

comp. A = 1.5 kg bucket

comp. B = 0.5 kg can

On request :

comp. C = 10 kg bag





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PRODUCT IDENTIFICATION DATA			
	COMP. A	COMP. B	COMP. C
Appearance	liquid	fluid	dust
Color	colored	transp. dark	grey
Residue Dry	100%	100%	-
Weight Specific (g/cm ³)	1.35	1.01	-
Viscosity at + 23 °C (mPa s)	3000	250	-
Preserve- - tion	12 months if stored properly in original packaging and in a dry place free from humidity		
Classificat- - ion of danger second Directive 1999/45/EC	Irritant, dangerous, corrosive to the environment. Before use, consult the paragraph "Health Safety Warnings" and the information on the packaging and on the safety data sheet		

APPLICATION DATA (at +23°C and 50% RH)	
Mixing ratio	A : B : C = 1,5 : 0,5 : 1,0
Dough color	cement grey / dark grey
Specific Weight of the dough (g/cm ³)	1.90
Consistency of the mixture	dense
Working time at + 20°C	about 10 min.
Temperature of application	from +5°C to +30°C
Setting time	30 min.
Walkability	1 hour
Dust off	1 hour
Trafficable hardening	2 hours





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MECHANICAL RESISTANCES

Performance Feature of the mortar (A+B+C)	Method on trial	Requirements according to EN 13813 for synthetic resin screeds	Performance of the mortar (A+B+C)	
BCA wear resistance	UNI EN 13892-4	$\leq 100 \mu\text{m}$	28 days	10 μm
Bond strength (with primer)	UNI EN 13892-8; 2004	$\geq 1.5 \text{ N/mm}^2$	28 days	3.10 N/mm^2
Impact resistance	UNI EN ISO 6272	$\geq 4 \text{ N/mm}^2$	28 days	20 N/mm^2
Compressive strength	ASTM D695		28 days	55 N/mm^2
Bending resistance	ISO 178		28 days	25 N/mm^2
Tensile strength	ASTM D638		28 days	20 N/mm^2
Adhesion to concrete (with primer)			28 days	> 2 (breaking of the support)
Surface hardness (shore D):			28 days	80
Abrasion resistance Taber abrasion meter (1,000 cycles /1,000 g, CS 17 wheel) expressed as weight loss:	DIN 52108		28 days	70 mg

ADDITIONAL DATA AND RELATED PERFORMANCES

Minimum operating temperature	+ 5°C
Mixture usage time (A+B) at 20°C	10 min.
Mortar usage time (A+B+C) at 20°C	15 min.
First hardening time of mortar (A+B+C) at 20°C	1 h
Hardening time for opening to traffic at 20°C	2 hours
Application of the mixture: squeegee, spatula, bubble roller	
Yield of the ready mix (A+B+C) (for 1 mm thickness)	1.9 Kg/m^2
Specific weight of the binder (A+B)	1.35 g/cm^3
Specific weight of the ready mix (A+B+C)	1.90 g/cm^3
Binder color	light grey / dark grey
Usage ratios by weight:	Part A 10.00
	Part B 2.00
	Part C 6.00



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CLEANING

Equipment used for the preparation and application of POLISEAL AIRPORT must be cleaned immediately after use with DILUEPOL. Once the product has hardened, removal can only be done mechanically.

STORAGE

12 months, if stored in tightly closed original containers and in a cool, dry place.

HEALTH AND SAFETY WARNINGS

HAZARDS

Irritating to eyes, skin and lungs

PRECAUTIONS FOR USE

Keep out of reach of children Avoid contact with eyes. Wear suitable protective goggles. Avoid prolonged and repeated contact with skin. In case of contamination, remove the product with absorbent napkins and wash thoroughly with soap and water. Use suitable gloves. Wear protective clothing. Wash soiled clothing before reusing. Always consult the latest version of the safety data sheet.

FIRST AID

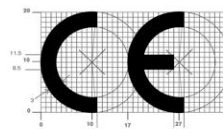
Wash exposed skin thoroughly with soap and water. In case of contact with eyes, rinse thoroughly with water. If breathing is difficult, move the person to fresh air.

DISPOSAL

Dispose of in landfill in accordance with local laws.

The above data are information obtained based on our best technical and applicative knowledge and research experience. However, since we cannot directly intervene on the conditions of the construction sites and the execution of the works, they represent general indications that do not bind APSE V&V in any way. The information provided does not exempt the purchaser from his responsibility to personally test our products with regard to their suitability for the intended use.

The customer is also required to verify that this technical sheet is valid for the product batch of his interest and is not outdated as replaced by subsequent editions. If in doubt, contact our Technical Office in advance. APSE V&V reserves the right to make technical changes of any kind without prior notice. This revision cancels and replaces any previous one, all under the continuous verification of the data in function to the new Current regulations and our ISO 9001 management system.



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**UNI EN 13813 - C 70-F 7 UNI
EN 13892/3 - 1339/G - A 6**

ELASTIC SELF-LEVELLING SYSTEM
MADE WITH RESINS
POLYURETHANE

Reaction to fire / Reaction to fire:	A1n
Release of corrosive substances / Release corrosive materials: Water permeability / Water permeability:	CT
Water vapour permeability / Water vapour permeability:	NPD
Compressive strength / Compressive strength: Flexural strength / Flexural strength:	NPD
Wear resistance / Abrasion test:	C70
Isolation to noise:	F7
Sound absorption / Noise absorption:	A6
Thermal resistance / Thermal resistance:	NPD
Chemical resistance / Chemical resistance:	NPD

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