



DESCRIPTION

POLISEAL AL is a two-component (A+B), fluid, coloured, solvent-free polyurethane formulation. The components are supplied pre-measured; it is possible to add component C, an inert material, supplied in 10 kg bags. Also available in the POLISEAL AL TIX version, with the same chemical and physical properties, ideal for vertical surfaces.

FIELDS OF USE

Self-levelling floors in all environments where temperature fluctuations may occur or where, due to specific operational requirements, a flexible floor is required, such as:

- Floor slabs;
- Car parks;
- Offices;
- Outdoor flooring, including areas subject to traffic from rubber-tyred vehicles, even on asphalt yards.

PACKAGING

Comp. A = 18 kg bucket
Comp. B = 3,6 kg tin
On request: comp. C = 10 kg bag

CONSUMPTION

1,2 kg/m² per mm thickness

MIXING RATIO

The mixing ratio by weight is:
Comp. A : B = 100 : 20

FEATURES AND BENEFITS

- Excellent resistance to water, diluted alkalis and oils;
- Good resistance to diluted acids and solvents;
- Excellent self-levelling properties;
- Elastic coating;
- Excellent resistance to temperature fluctuations;
- Excellent resistance to traffic from rubber-tyred vehicles;
- Can be applied from +5 °C;
- Operating temperature range from -30 to +75 °C.

CERTIFICATIONS

POLISEAL AL complies with
UNI EN 13813: materials for screeds (DoP n° 433).
ISO 9001 certified quality management system
(Certificate No. IT.17.0227.01.QMS).
APSE S.r.l. is an active member of CONPAVIPER.



SUBSTRATE PREPARATION

To achieve a good aesthetic and functional result, substrate preparation is essential; therefore, the surface to be treated must be free from any contaminants, dry, sound, and must have a surface tear strength of at least 1.5 MPa. In all cases, the floor surface must be prepared by sanding, shot-blasting or milling, depending on the type of surface.

Any repairs to the concrete must be carried out beforehand, taking care to saturate the repaired area with quartz.

PRIMER APPLICATION

Prepare the area by applying APSEPRIMER NS 125 as primer by smoothing the surface, then sprinkling with 0.1÷0.3mm quartz.

PRODUCT PREPARATION

POLISEAL AL is a two-component product that must be thoroughly mixed immediately before use.

The recommended mixing procedure is as follows: pour Component B into Component A and mix using a low-speed drill mixer.

Then transfer the mixed material into a clean second container, taking particular care to transfer all the product from the first container, including any material remaining on the sides and bottom of the container. Mix again briefly.

This procedure ensures a perfectly homogeneous mixture, free from even the smallest quantities of unmixed material, which could compromise the aesthetic appearance of the flooring.



APPLICATION METHOD

On the cured primer, remove any excess material that is not properly bonded. Then apply POLISEAL AL with a trowel, in an amount sufficient to achieve the desired thickness, taking care to repeatedly pass a spike roller over the surface immediately after application.

For applications on asphalt, use medium-pile rollers over the appropriate PAVINRESIN MONO primer.

Apply the VERNILUX POL finish after a minimum of 12 hours and within a maximum of 24 hours.

Depending on the type and intensity of traffic to which the flooring is subjected, abrasion resistance can be increased by finishing the surface with anti-slip coatings containing suitable aggregates. Please contact the Technical Service for further information.

Apply the product at temperatures between +5°C and +30°C.

CURING

The curing time of a layer of POLISEAL AL is affected by the ambient temperature.

Refer to the table below for drying and curing times (at 20°C).

Time of use of the mixture (A+B)	10 min.
Time of use of the mixture (A+B+C)	15 min.
Time to start setting	30 min.
Dust-free	1 hour
Walkability	2 hours
Ready for traffic	12 hours

WARNINGS

- Do not apply on wet substrates;
- Do not apply if the adhesion primer has been cured for more than 24 hours;
- On asphalt, apply the specific PAVINRESIN MONO primer.

CLEANING EQUIPMENT

The equipment used for the preparation and application of POLISEAL AL must be cleaned immediately after use with DILUEPOL. Once the product has cured, it can only be removed mechanically.

HEALTH AND SAFETY

For information on safety regulations, hazard statements and precautionary advice, rely on the most recent MSDS by making a request to:

ufficiotecnico@apsebg.it

STORAGE

Shelf life of more than 12 months when stored in original packaging in a dry, moisture-free place. Store at temperatures between +5°C and +30°C.

DISPOSAL

Dispose of contents and/or container in accordance with local regulations.



PRODUCT TECHNICAL DATA

PHYSICAL CHARACTERISTICS (at +20°C)

CHARACTERISTICS	STANDARD	RESULT		
		COMP. A	COMP. B	COMP. C
Appearance	-	Liquid	Fluid	Powder
Colour	-	Coloured	Transparent dark	Grey
Dry residue		100%	100%	100%
Specific gravity	EN ISO 2811-1	1.35 g/cm ³	1.01 g/cm ³	-
Viscosity	EN 8490	3000 cps	2500 cps	-

PHYSICAL CHARACTERISTICS OF THE MIXTURE (at +20°C)

CHARACTERISTICS	STANDARD	RESULT
Colour	-	Coloured
Consistency of the mixture	-	Fluid
Specific gravity of the mixture (A+B)	EN ISO 2811-1	1.57g/cm ³
Viscosity	EN 8490	19000 ± 3000

PRODUCT PERFORMANCE ACCORDING TO UNI EN 13813

CHARACTERISTICS	STANDARD	RESULT
Flexural strength	EN ISO 178	25 N/mm ²
Wear resistance BCA	EN 13892-4	50 µm
Impact resistance	EN ISO 6272	≥ 20 N.m
Adhesion strength (with primer)	EN 13892-8	> 3.1 N/mm ²

PRODUCT PERFORMANCE IN OPERATION

CHARACTERISTICS	STANDARD	RESULT
Carbon dioxide permeability	UNI EN 1062-6 (method A)	R > 50 m
Water vapour permeability	UNI EN 7783-2	Sd < 5 m
Capillary absorption and water permeability	UNI EN 1062-3	w < 0.1 kg / m ² .h ^{0.5}
Breaking load	UNI EN 12311-2	< 2 MPa
Crack bridging	UNI EN 1062-7	Method A, static: A5 (23°C) Method B, dynamic: > B 4.1 (23°C)
SHORE D hardness	EN 868	80
TABER abrasion resistance	DIN 52108	70 mg

The above data are information obtained based on our best technical knowledge, application, and research experience. However, since we are unable to intervene directly in site conditions and work execution, they represent general indications that do not bind APSE S.r.l. in any way. - V&V Group. The information given does not relieve the purchaser of his responsibility to personally test our products as to their suitability with regard to their intended use. The customer is also responsible for verifying that this data sheet is valid for the batch of product of interest to him and is not outdated as superseded by later editions. If in doubt, contact our Technical Department in advance. APSE S.r.l. - V&V Group reserves the right to make technical changes of any kind without prior notice. This revision cancels and supersedes all previous ones, all under the continuous verification of data according to the new current Standards and our ISO 9001 management system. Please be sure to check the most up-to-date version of this Data Sheet on our website: www.apse.it

