

ELASTOFLEX MONO 821

ELASTIC POLYURETHANE COATING BASED ON ALIPHATIC ISOCYANATES AND SPECIAL MONO-COMPONENT POLYOLS, TRANSPARENT



DESCRIPTION

Low-viscosity transparent waterproof protective coating, specifically designed for the waterproofing of balconies and terraces subject to infiltration. Applied in one or two coats, the product creates an elastic and durable waterproof layer while leaving the underlying flooring visible.

It is resistant to freeze-thaw cycles, thermal shock, and offers excellent durability and high mechanical strength.

FIELDS OF APPLICATION

Transparent protective coating for the surface treatment of balcony and terrace tiles affected by infiltration problems.

It provides a medium level of walkability and puncture resistance, suitable for areas subject to wear from furniture such as chairs and tables.

PACKAGING

5 and 20 kg buckets

CONSUMPTION

Approximately 0.8–0.9 kg/m² per coat.

CERTIFICATIONS

ELASTOFLEX MONO 821 complies with UNI EN 1504-2: Surface protection systems for concrete (DoP n° 517).

Quality management system certified according to ISO 9001 (Certificate No. IT.17.0227.01.QMS). APSE S.r.l. is an active member of CONPAVIPER.



SUBSTRATE PREPARATION

Thoroughly clean the substrate to remove dust, loose particles, and any foreign or non-adhering substances. Ensure that the surface to be treated is free from excessive moisture, as this could cause whitish stains, bubbles, or detachment.

Primer application is necessary only for cement substrates and absorbent materials. In such cases, use **APSEPOX 910** in the presence of moisture, or **POLIGLASS MONO PRIMER** (refer to their respective technical data sheets).

PRODUCT PREPARATION

The product is single-component and ready to use. Stir briefly before application.

APPLICATION METHOD

Apply on a dry and clean substrate using a notched metal trowel, followed by a bubble-breaking roller to eliminate any trapped air bubbles.

If necessary, a second coat of the product (0.8–0.9 kg/m²) can be applied after at least 24 hours from the first coat.

APPLICATION OF THE FINISH

To improve the product's surface resistance and reduce dirt retention, apply a protective coat of VERNILUX POL TR evenly and continuously using a short-pile roller, after the second coat of ELASTOFLEX MONO 821 has dried. If further improvement in slip resistance is required, add a filler of glass microspheres to the topcoat; mix this into the product before application, at a rate of 5–7 % of the total product weight.

CURING

The curing time of ELASTOFLEX MONO 821 is influenced by ambient temperature.

For drying and curing times at 20°C, refer to the table below.

Second coat application	24 hours
Application of the finish after the second coat	24 hours
Walkable after last coat	48 hours
Full curing	7 days

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WARNINGS

- Do not add additives or fillers;
- Do not use if the container is damaged;
- Do not add water and/or solvents;
- Apply ELASTOFLEX MONO 821 at temperatures between +5°C and +35°C;
- Protect the coating from water, rain, and snow during the first 48 hours after application;
Do not apply in conditions of high humidity (>80% RH).

TOOL CLEANING

Equipment used for the preparation and application of ELASTOFLEX MONO 821 must be cleaned immediately after use with denatured ethyl alcohol. Once the product has hardened, removal can only be carried out mechanically.

HEALTH AND SAFETY

For information on safety regulations, hazard indications, and precautionary advice, refer to the most recent safety data sheet, available upon request at: ufficiotecnico@apsebg.it

STORAGE

Shelf life exceeds 12 months if stored in the original packaging, in a dry, moisture-free environment. Store at temperatures between +5°C and +35°C.

DISPOSAL

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

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PRODUCT TECHNICAL DATA

PHYSICAL CHARACTERISTICS (at +20°C)

CHARACTERISTIC	STANDARD	RESULT
Appearance	-	Transparent liquid
Resin color	-	Transparent
Specific gravity	EN ISO 2811-1	1.10 ± 0.05 g/cm ³
Viscosity	EN 8490	1700 ± 200 cps

PERFORMANCE IN SERVICE

CHARACTERISTIC	STANDARD	RESULT
Service temperature	-	From -30°to +50°C
Tensile strength	EN ISO 527-1	≥ 6 N/mm ²
Elongation at break	EN ISO 527-1	≥ 160%
Water absorption - After 24 hours - After 7 days	ASTM D 471	≤ 0.5% ≤ 0.9%
Low-temperature flexibility (-26°C)	ASTM D 522	No cracking
Adhesion to substrate after 25 thermal shock cycles - Before sun/rain cycles - After sun/rain cycles	EN 1348	≥ 2 N/mm ² (Required : ≥ 1 N/mm ²) ≥ 2 N/mm ² (Required : ≥ 1 N/mm ²)
Waterproofing	EN 1928	≥ 2 Bar
SHORE A Hardness	DIN 5350-A-87	80

PRODUCT CHARACTERISTICS IN ACCORDANCE WITH STANDARD EN 1504-2

CHARACTERISTIC	STANDARD	RESULT
Water vapour permeability	ISO 7783	5m ≤ S _D ≤ 50 m
Capillary absorption and water permeability	EN 1062-3	W < 0,1 kg/m ² .h ^{0,5}
Impact resistance	EN ISO 6272-1	Class I
Direct traction adhesion (with traffic)	EN 1542	≥ 2 N/mm ²
Direct traction adhesion after thermal shock cycles (with traffic)	EN 1542	≥ 2 N/mm ²

The data given above are information obtained from 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. 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.

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