APSE®
floor products since 1964

N. 517 - REV.11/2025

# 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.

ISO 9001 certiW CERTIFIED

CE EN 1504-2

## 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.

## 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 |
| 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<br>• After 24 hours<br>• After 7 days | ASTM D 471 | <br>≤ 0.5%<br>≤ 0.9% |
| Low-temperature flexibility (-26°C) | ASTM D 522 | No cracking |
| Adhesion to substrate after 25 thermal shock cycles<br>• Before sun/rain cycles<br>• After sun/rain cycles | EN 1348 | <br>≥ 2 N/mm$^2$ (Required : ≥ 1 N/mm$^2$)<br>≥ 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$^2$ |