APSE®
floor products since 1964

No. 518 – Rev. 11/2026

IMPERFLEX

SINGLE-COMPONENT POLYURETHANE LIQUID WATERPROOFING COMPOUND



DESCRIPTION

A coloured, single-component waterproofing compound based on polyurethane resins and solvent-based additives. It is resistant to atmospheric agents, freeze-thaw cycles and thermal shock, and offers excellent long-term durability.
The product is suitable for foot traffic.

AREAS OF APPLICATION

A product specifically designed for the waterproofing and protection of structures such as roofs, canopies, flat roofs, parapets, staircases, terraces and balconies subject to light pedestrian traffic.

It can be used on various substrates, including:

- Concrete;
- Cementitious substrates;
- Bricks;
- Tiles;
- Smooth or slate-effect bituminous membranes (which have been left to cure for at least 180 days).

PACKAGING

5 kg and 20 kg plastic buckets

COVERAGE

1.5–1.6 kg/m² in two coats without reinforcement
1.9–2.0 kg/m² in two coats with non-woven fabric in between.

FEATURES AND BENEFITS

- Easy to apply;
- Resistant to thermal shock;
- Operating temperature range from +80°C to -40°C.
- Excellent elasticity even at low temperatures.

CERTIFICATIONS

IMPERFLEX complies with the standard
UNI EN 1504-2: Concrete surface protection systems (DoP No. 518).
ISO 9001-certified quality management system (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

Concrete: the surface to be treated must be free from any contaminants, dry, sound and have a tensile strength of at least 1.5 MPa. In all cases, appropriate surface preparation must be carried out.
Check that the surface to be treated is free from excessive moisture (≤4 per cent), as this could cause blistering and delamination.
Apply APSEPRIMER NS 125 (coverage approx. 400–500 g/m²) followed by a dusting of 0.1–0.3 quartz.
In case of damp substrates (≥ 4%), apply UMIFOND 3C as indicated in the relevant technical data sheet.

Bituminous membranes: clean the surface, removing dirt, dust, any loose aggregate, etc. Remove any deformations from the bituminous membrane. Any repairs can be carried out by flame-sealing the membrane. On a sandblasted bituminous membrane, apply one coat of PAVINRESIN MONO (coverage approx. 200–300 g/m²).

Ceramic, tiles and stoneware: prepare the surface by grinding, sanding or shot-blasting.
Any free-standing or standing water originating from the substrate, previous washing operations or weather conditions must be removed or dried using appropriate methods. Apply APSEPRIMER NS 125 (coverage approx. 400–500 g/m²) followed by a dusting of quartz 0.1–0.3.
In the case of damp substrates (≥ 5%), apply UMIFOND 3C as indicated in the relevant technical data sheet.

For sealing wall/floor corners, drains, vent pipes, etc., use ELASTOBAND 10.
Use APSEGOM for sealing joints.

PRODUCT PREPARATION

Ready-to-use single-component product; mix using a low-speed mixer to minimise air entrapment.
If necessary, it can be diluted by up to 5% with DILUPOL.

APPLICATION METHOD

Once the primer has dried, apply the product in two coats using a roller, brush or airless sprayer. Allow the recommended drying time before applying the second coat (refer to the 'CURING' section).

Apply the product at temperatures between +5°C and +35°C

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Application with TNT:
In case of tiled floors or substrates subject to stress (raised surfaces, bituminous membranes, etc.), apply the product as described below:

Apply the first coat using a short-pile roller at a consumption rate of 1.0–1.1 kg/m² evenly across the entire surface.

Whilst the product is still fresh, lay the 60 g/m² polypropylene reinforcement non-woven fabric, pressing it into the product with a roller and adding further product if necessary to ensure the fabric is fully embedded.
The fabric should overlap by 10 cm at the sides and 15 cm at the top. To ensure adhesion along the overlap, apply additional product to the edge of the fabric already laid before unrolling the new layer of non-woven fabric.

Allow to dry and apply the second coat of product, using approximately 0.9–1.0 kg/m² . Again, it is advisable to apply the coats in a criss-cross pattern to ensure even distribution of the product.
On vertical upstands and walls, apply the product in two coats without using a reinforcing fabric.

APPLICATION OF THE FINISH

For exposed waterproofing, to improve UV resistance, apply one coat of coloured VERNILUX POL or ACQUAPOL (refer to the relevant technical data sheets)

CURING

The curing time of IMPERFLEX is influenced by the ambient temperature.
For drying and curing times (at 20°C and 50% RH), refer to the table below.

Touch-dry	7–8 hours
Application of second coat	18–24 hours
Walkable after second coat	24 hours
Full curing	7 days

WARNINGS

- Do not add water and/or solvents unless specified in this technical data sheet;
- Do not use if the container is damaged;
- Do not apply the product in thick layers per coat;
- Protect from water, rain, mist and snow for the first 24 hours after each application.

CLEANING OF TOOLS

Equipment used for the preparation and application of IMPERFLEX must be cleaned immediately after use with DILUPOL. Once the product has set, it can only be removed mechanically.

HEALTH AND SAFETY

For information on safety regulations, hazard warnings and precautionary advice, please refer to the latest safety data sheet, which can be requested at: ufficiotecnico@apsebg.it

STORAGE

Shelf life of 6 months when stored in the original packaging in a dry, moisture-free place. Store at temperatures between +5°C and +35°C.

DISPOSAL

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

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PRODUCT TECHNICAL DATA

PHYSICAL PROPERTIES (at +20°C)

PROPERTY	STANDARD	RESULT
Appearance	-	Coloured liquid
Available colours	-	Grey, white, red
Density	EN ISO 2811-1	1.59 ± 0.05 g/cm³
Viscosity	EN ISO 2555	7500 ± 1500 cps
Non-volatile substances	EN ISO 3251	90 ± 2%

PRODUCT CHARACTERISTICS IN ACCORDANCE WITH STANDARD EN 1504-2

CHARACTERISTIC	STANDARD	RESULT
Impact resistance	EN ISO 6272	4 N·m
Elongation at break	EN 12311-2	>450%
Direct tensile adhesion strength	EN 1542	4 N/mm²
Shore A hardness	EN ISO 868	>70
Carbon dioxide permeability	EN 1062-6	S_D > 50 m
Water vapour permeability	ISO 7783	S_D < 5 m
Capillary absorption	EN 1062-3	W < 0.1 kg/m²·h$^{0.5}$

The data given above are based on our best technical knowledge, practical experience and research findings.
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