APSE®
floor products since 1964

N. 472 - REV. 05/2026

APSEPRIMER AS

ELECTRICALLY CONDUCTIVE EPOXY PRIMER

DESCRIPTION

APSEPRIMER AS is a two-component, solvent-based epoxy resin formulation with high-quality conductive fillers, suitable for creating base coats for electrically conductive self-levelling flooring systems.

FIELDS OF APPLICATION

- APSEPRIMER AS is used exclusively as a conductive layer beneath electrically conductive coatings such as APSELIV AS;
- Electrically conductive coating for cementitious substrates and concrete for various industrial uses.

PACKAGING

Comp. A = 15 kg in metal can
Comp. B = 3 kg i in metal can

CONSUMPTION

Indicative consumption: 0.2–0.3 kg/m²

MIXING RATIO

Comp. A : Comp. B = 5 : 1

CHARACTERISTICS AND ADVANTAGES

- High conductivity;
- Easy to apply;
- Fast drying.

CERTIFICATIONS

APSEPRIMER AS complies with
UNI EN 13813: screed materials (DoP no. 472).
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 13813

SUBSTRATE PREPARATION

Concrete floor surfaces must be dry, clean, and free of friable or loose parts. The substrate's relative humidity must not exceed 4%, and there must be no rising damp; if present, apply a vapour barrier using UMIFOND 3C. Holes and major irregularities must be repaired beforehand with APSEFLOOR MALTA. Static cracks can be filled with AP300 FIX.

PRODUCT PREPARATION

Before mixing the two components, thoroughly stir component A and briefly stir component B. Then pour component B into container A and mix with a drill and low-speed mixer until fully homogenised.

APPLICATION OF THE PRIMER

Installation of the conductive, self-adhesive copper strips and connection to the earth terminal. Each earth point is sufficient for a continuous area of APSELIV AS of approximately 80m².
However, their layout and number depend on the conditions and geometry of the site and must be determined on a case-by-case basis by qualified technical staff.

APPLICATION OF COPPER STRIPS

Installation of the conductive, self-adhesive copper strips and connection to the earth terminal. Each earth point is sufficient for a continuous area of APSELIV AS of approximately 80m².
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JOINTS

Control joints, where necessary, must also be incorporated into the resin coating, electrically connecting the two sections separated by the joint using a suitable copper strip approximately 1 m in length; the copper strip must fit into the dovetail joint and must adhere to the adjacent surface, perpendicular to the joint itself, for approximately 50 cm on each side. This operation must be carried out before grouting the joints for the subsequent coating. When, once the coating is complete, the joints are re-cut to match the existing ones, particular care must be taken to ensure that the cutter blade does not sever the copper strip. For added safety, it is advisable to chamfer the joint section where the connection is to be made by a few centimetres in a dovetail shape, so as to keep the V-shaped copper strip more open. Expansion joints, construction joints and all dynamic joints must be strictly adhered to and also marked on the cladding. The joints must subsequently be sealed with APSEGOM 40

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APPLICATION OF THE CONDUCTIVE LAYER

The conductive layer consists of the primer The conductive layer consists of APSEPRIMER AS primer, to be applied by roller in a single coat, at a rate of approximately 80–100 g/m² over the entire surface, covering the conductive units.
APSEPRIMER AS must only be applied over the previous primer once it
is completely dry and cured. Otherwise, the conductivity of the APSEPRIMER AS primer may be impaired.
On fresh primer, apply a dusting of conductive aggregate (silicon carbide), at a rate of approximately 1.5 kg/m². Remove any excess aggregate after drying.
Once APSEPRIMER AS has cured, it is advisable to check the surface conductivity before applying the self-levelling coating.
For further details, please refer to the Technical Data Sheet for the APSEPRIMER AS primer.

The system is completed by applying the conductive coatings APSELIV AS or VERNILUX POL AS, depending on the requirements (see respective technical data sheets).

MEASUREMENT OF ELECTRICAL CONDUCTIVITY

For conductivity measurements, at least one test must be carried out for surface areas up to 10 m², 10–20 tests for areas between 10 and 100 m², and at least 10 tests per 100 m² for larger areas.
Measurements must be taken at points at least half a metre apart.
If a measurement does not meet the specified parameters, repeat it at a point approximately 30 cm away.
If the new value is acceptable, the area is to be considered acceptable.
Measurement values can be significantly influenced by environmental conditions, the type of instrument, the personnel carrying out the measurements or actively participating in the tests, etc. It is advisable to carry out preliminary sampling for acceptance and to establish the testing and instrumental verification methods in advance.

CURING

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

Workability time (Pot-life)	1 hour
Overcoating time	36-48 hours
Full cure	7 days

WARNINGS

- Do not use if the container is damaged.
- The temperature of the substrate and the uncured product must be at least 3°C above the dew point to reduce the risk of condensation or white bloom on the finish.
- Low temperatures and high humidity levels increase the likelihood of bleaching.

CLEANING OF TOOLS

Tools used for the preparation and application of APSEPRIMER AS must be cleaned immediately after use with DILUEPOX solvent. Once the product has hardened, removal can only be carried out mechanically.

HEALTH AND SAFETY WARNINGS

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 of over 12 months when stored in the original unopened containers, in a dry place and protected from moisture.
Store at temperatures between +5°C and +35°C.

DISPOSAL

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

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PHYSICAL CHARACTERISTICS (at +20°C)

CHARACTERISTIC	STANDARD	RESULT	
		COMPONENT A	COMPONENT B
Appearance	-	Liquid	Liquid
Colour	-	Black	Dark brown
Specific weight	EN ISO 2811-1	1.3 g/cm^3	1.0 g/cm^3
Viscosity	EN 8490	3000 cps	300 cps

PRODUCT PERFORMANCE ACCORDING TO EN 13813

CHARACTERISTIC	STANDARD	RESULT
Adhesion strength	EN 13892-8	2.0 N/mm^2
Reaction to fire	EN 13501-1	F_{fl}