



DESCRIPTION

Three-component self-levelling epoxy–cement system.

FIELDS OF APPLICATION

APSECEM AL is used as:

- Self-levelling coating layer;
- Surface restoration layer for repairing concrete floors;
- Levelling underlayment before the application of resin coatings;
- Bonding layer for anti-wear aggregates in multilayer systems.

FEATURES AND BENEFITS

- Easy to apply with excellent levelling properties;
- Fast curing;
- High mechanical performance;
- Structural adhesion to concrete, even when damp or under slight back pressure;
- Resistant to thermal shock;
- Application temperature from +5°C to +35°C;
- Service temperature from –25°C to +100°C.

PACKAGING

Pre-measured 25 kg kits (A + B + C):
componente A = 2,3 kg bucket
componente B = 1,7 kg can
componente C = 21 kg bag

CONSUMPTION

2,1 kg/m² per mm of thickness.

MIXING RATIO

A + B + C = 2.3 : 1.7 : 21 kg

CERTIFICATIONS

APSECEM AL complies with:
UNI EN 13813: screed materials (DoP No. 432).
Quality management system certified to ISO 9001
(Cert. No. IT.17.0227.01.QMS).
APSE S.r.l. is an active member of CONPAVIPER.



SUBSTRATE PREPARATION

Surfaces must always be prepared by shot-blasting or scarifying and must be free of dust, friable, loose, or contaminated layers, ensuring a pull-off strength of at least 1.5 MPa.

For very dry and absorbent surfaces, apply the primer APSEPOX 910 diluted 1:1 with water, with a consumption of 100–150 g/m² of the mixture.

If “bottle-neck” holes are present, apply the product by scraping and compressing it thoroughly onto the surface while still distributing the required amount. The substrate temperature must be at least 3°C above the dew point to reduce the risk of condensation or whitening of the finish.

PRODUCT PREPARATION

Three-component product to be mixed thoroughly before use using a mechanical mixer as follows:

- Pour component B into component A and mix.
- While mixing, add component C and continue mixing until a completely homogeneous blend is obtained (approx. 5 minutes).

Do not add water under any circumstances.

APPLICATION METHOD

APSECEM AL is suitable for thicknesses from 3 to 7 mm, applied by rapid trowelling followed by careful passage with a spike roller.

If greater thicknesses are required in localized areas (up to 30 mm maximum), load the product with 2–3 mm quartz aggregate, increasing the quantity proportionally to the thickness up to a maximum ratio of 1 part by weight of product to 0.5 parts by weight of quartz.

Joints or overlaps in APSECEM AL must be made along clearly defined straight lines and preferably aligned with the existing concrete substrate joints. The already hardened surface adjoining a new section must be roughened to avoid visible ridges. The resulting joint lines must be cut and sealed with a suitable product.

Apply at temperatures between +5°C and +35°C.

APSECEM AL

HIGH-STRENGTH SELF-LEVELLING MORTAR
BASED ON EPOXY RESINS IN WATER
DISPERSION AND HYDRAULIC BINDERS



FINISHING LAYER

APSECEM AL should preferably be coated with a resin layer, respecting minimum overcoating intervals depending on the products used, the substrate moisture conditions, and ambient temperature and humidity.

For all other epoxy or polyurethane resin cycles, the minimum interval under normal conditions must be **at least 48 hours**, while for temperatures below 15°C and in the presence of substrate humidity, the interval must be increased to **a minimum of 96 hours**.

CURING

For drying and curing times (at +20°C and 55% R.H.), refer to the table below.

Pot-life	25 minutes
Touch dry time	5-8 hours
Light foot traffic	20 hours
Light vehicle traffic	24 hours
Overcoating	48 hours
Full curing	28 days

WARNINGS

Do not add water or additives.

It is recommended to mix the product properly using a slow-speed mixer, avoiding overheating.

TOOL CLEANING

Tools used for the preparation and application of APSECEM AL must be cleaned immediately after use with water, preferably warm. Once the product has cured, 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: 12 months if stored in the original packaging, in a cool, dry place.

Store at temperatures between +5°C and +25°C. Protect from frost.

DISPOSAL

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



TECHNICAL DATA SHEET

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

CHARACTERISTICS	STANDARD	RESULT
Color	-	White, grey
Specific weight	EN ISO 2811-1	2.10 g/cm ³

PRODUCT PERFORMANCE ACCORDING TO STANDARD EN 13813

CHARACTERISTICS	STANDARD	RESULT
Compressive strength	EN 13892-2	1 day: ≥ 30.0 N/mm ² 7 days: ≥ 50.0 N/mm ² 28 days: ≥ 65.0 N/mm ²
Flexural strength	EN 13892-2	1 giorno: ≥ 1.5 N/mm ² 7 giorni: ≥ 9.0 N/mm ² 28 giorni: ≥ 17.0 N/mm ²
Adhesion strength	EN 13892-8	≥ 2.00 N/mm ²
Elastic modulus	UNI 6556	20.000 N
Fire reaction class	EN 13501-1	F _{fl}

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