

APSELIV 135

TWO-COMPONENT EPOXY FORMULATION
SELF-LEVELLING UP TO 3 MM THICKNESS
WITH FLEXIBILITY CHARACTERISTICS



DESCRIPTION

APSELIV 135 is a flexible two-component epoxy formulation suitable for self-levelling and/or multilayer resin coatings and/or as a coating with a smooth or anti-slip finish, with a thickness up to 3 mm, or for joint filling.

FIELDS OF APPLICATION

It is used for flooring coatings with a minimum self-levelling thickness from 1 mm to 3 mm.

It can be used for floors in the following sectors:

- Chemical and pharmaceutical industries;
- Coatings for the food industry;
- Coatings for laboratories, clean rooms, and hospitals;
- Coatings for aseptic environments;
- Coatings for automated warehouses;
- Coatings for shopping centers;
- Filling of medium-sized structural joints (max. 3×3 cm) or, with the addition of mineral aggregates, for larger dimensions.

PACKAGING

Comp. A = 10 kg metal can

Comp. B = 3,5 kg metal can

CONSUMPTION

1. Self-levelling coating (2 mm thickness)

Approx. 0.5 kg/m² of primer depending on the substrate

2.0 kg/m² quartz broadcasting

1.5 kg/m² APSELIV 135 (A+B)

1.3 kg/m² LIVEL QUARTZ (Filler)

As this is a self-levelling system, substrate flatness significantly affects material consumption.

2. Multilayer coating (1.5 mm thickness)

0.7 kg/m² primer depending on the substrate

3.0 kg/m² quartz broadcasting

0.8 kg/m² APSELIV 135 (A+B)

MIXING RATIO

The mixing ratio by weight is:

Comp. A : B = 13 : 4.5

FEATURES AND BENEFITS

APSELIV 135 is a two-component, filled epoxy-based formulation.

It is particularly suitable for the food industry.

APSELIV 135 can be applied in thicknesses up to 3 mm.

It is recommended for environments exposed to medium chemical aggression and heavy mechanical stress.

Thanks to its very pleasant aesthetic appearance, APSELIV 135 can also be used for civil or decorative flooring.

Operating temperatures for APSELIV 135 range from -20°C to +60°C.

CERTIFICATIONS

APSELIV 135 complies with UNI EN 13813: screed materials (DoP No. 425).

Certified quality management system ISO 9001 (Certificate No. IT.17.0227.01.QMS).

APSE S.r.l. is an active member of CONPAVIPER.



SUBSTRATE PREPARATION

Surfaces must be level, clean, and free from dust, oil, grease, mud, loose parts, coatings, or anything that may impair adhesion.

Any cracks must be repaired with APSESTUK or AP 300 FIX.

If necessary, before applying APSELIV 135, heat the environment so that the substrate also reaches a temperature of at least 10°C.

Before applying APSELIV 135, thoroughly vacuum all dust from the substrate.

Application of primer APSEPRIMER NS 125

Pour all of component B into component A and mix thoroughly until a uniform colour is obtained.

Load the product with LIVEL QUARTZ (0.1–0.5 mm) at a weight ratio of 1 : 0.8.

Spread the mixture over the properly prepared substrate and trowel to zero using a smooth trowel, ensuring complete surface coverage.

Immediately after applying the primer, it is recommended to broadcast quartz (0.1–0.5 mm) over the surface to improve adhesion of APSELIV 135.

Once the APSEPRIMER NS 125 primer has cured, proceed with the application of APSELIV 135.

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PRODUCT PREPARATION

Mix each component separately. Pour component B (hardener) into component A (coloured resin) and mix for a few minutes with a low-speed drill until a lump-free, homogeneous mixture is obtained. While mixing slowly, add the required amount of QUARZO LIVEL aggregate (0.1–0.5 mm) and continue mixing until a uniform compound is achieved.

APPLICATION METHOD

APSELIV 135 can be used as a self-levelling coating or as a multilayer system, as described below.

1. Self-levelling coating (2–3 mm thickness)

- Prepare and prime the substrate as described in the "SUBSTRATE PREPARATION" section;
- Pour APSELIV 135 onto the cured primer and distribute it evenly using a notched trowel;
- It is recommended to spread and level the mixture and then roll it with a spike roller in cross passes to facilitate air release;
- It may be necessary to delimit the application areas using guides or adhesive strips of suitable thickness.

2. Multilayer coating (1–2 mm thickness)

- Prepare and prime the substrate as described in the "SUBSTRATE PREPARATION" section;
- Once the primer has cured, apply the first layer of APSELIV 135 using a smooth steel trowel;
- Broadcast QUARZO LIVEL to excess, according to the desired thickness;
- Remove any unbonded excess quartz;
- Apply the finishing layer of APSELIV 135 using a smooth steel trowel;
- If necessary, broadcast again to excess and apply an additional finishing layer of APSELIV 135 mixed with QUARZO LIVEL until the desired thickness is achieved.

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

Joint and guide-filling

Thoroughly mix component A with component B (hardener). If necessary, thicken with TIXO or add quartz powder.

Protect the edges of the areas to be filled with tape matching the filling colour.

After 2 hours (in winter) or 30 minutes (>25°C), level flush with the floor using a suitable trowel.

CURING

The curing time of an APSELIV 135 layer is influenced by ambient temperature.

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

Workability (Pot-life)	35 minutes
Initial setting time	60 minutes
Dust dry	2-4 hours
Foot traffic	24 hours
Full curing	7 days

WARNINGS

- Do not apply APSELIV 135 on dusty or friable substrates;
- Do not apply APSELIV 135 on substrates contaminated with oil, grease, etc.;
- Do not apply APSELIV 135 on substrates that are not properly prepared or not treated with a suitable primer (APSEPRIMER NS 125, etc.);
- Do not expose the mixed product to heat sources;
- Do not apply APSELIV 135 on damp substrates or substrates subject to rising capillary moisture;
- Do not dilute APSELIV 135 with solvents or water; only use alcohol if thinning is required;
- Do not apply APSELIV 135 outdoors, as it may yellow.

CLEANING OF TOOLS

Tools used for the preparation and application of APSELIV 135 (A+B) must be cleaned immediately after use with DILUEPOX epoxy solvent or denatured alcohol. Once the product has cured, removal can only be carried out mechanically.

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HEALTH AND SAFETY

For information regarding safety regulations, hazard warnings, and precautionary measures, please refer to the most recent Safety Data Sheet, available upon request at: ufficiotecnico@apsebg.it

STORAGE

Shelf life of over 12 months if stored in the original unopened containers in a dry, moisture-free environment.
Store at temperatures between +5°C and +30°C.

DISPOSAL

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

TECHNICAL DATA OF THE PRODUCT

PHYSICAL CHARACTERISTICS (at +20°C)

CHARACTERISTICS	STANDARD	RESULT	
		COMP. A	COMP. B
Appearance	-	Liquid	Liquid
Colour	-	Coloured	Transparent
Specific gravity	EN ISO 2811-1	1.50 g/cm ³	1.00 g/cm ³
Viscosity	EN 8490	2150 cps	300 cps

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

CHARACTERISTICS	STANDARD	RESULT
Colour	-	Coloured according to RAL scale
Mixture consistency	-	Fluid
Specific gravity of the mixture (A+B)	EN ISO 2811-1	1.35 g/cm ³
Specific gravity of the loaded mixture (A+B+QUARTZ)	EN ISO 2811-1	1.60 g/cm ³

PRODUCT PERFORMANCE ACCORDING TO UNI EN 13813

CHARACTERISTICS	STANDARD	RESULT
Taber abrasion resistance after 7 days (Wheel H22, 1000 g, 1000 cycles)	EN ISO 5470-1	60 mg
BCA wear resistance	EN 13892-4	10 µm
Impact resistance	EN ISO 6272	20 N.m
Bond strength	EN 13892-8	>3.1 N/mm ²
Reaction to fire	EN 13501-1	F _{fl}

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