

APSELIV GLASS

SELF-LEVELLING COLOURED RESIN WITH LOW YELLOWING, UP TO 3 mm THICKNESS



DESCRIPTION

APSELIV GLASS is a two-component epoxy formulation suitable for self-levelling and/or multi-layer resin coatings and/or as a coating with a pleasant smooth or anti-slip surface finish, with thickness up to 3 mm.

FIELDS OF APPLICATION

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

It can be used for flooring in the following applications:

- Coatings for dairies, factories, etc.;
- Chemical and pharmaceutical industries;
- Coatings for the food industry;
- Coatings for laboratories, clean rooms and hospitals;
- Coatings for aseptic rooms.

PACKAGING

Comp. A = 10 kg metal can
Comp. B = 2.5 kg metal can

CONSUMPTION

1. Self-levelling coating (2 mm thickness)

Approx. 0.5 kg/m² primer depending on the substrate
1.5 kg/m² quartz broadcasting
1.5 kg/m² APSELIV GLASS (A+B)
1.3–1.5 kg/m² Quarzo Nivel (Filler)

Since it is a self-levelling composition, the flatness conditions of the substrate significantly influence consumption.

2. Multi-layer coating (1.5 mm thickness)

0.7 kg/m² primer depending on the substrate
1.5 kg/m² quartz broadcasting
0.8 kg/m² APSELIV GLASS (A+B)

MIXING RATIO

The mixing ratio by weight is:
Comp. A : B = 100 : 25

FEATURES AND BENEFITS

APSELIV GLASS is a two-component, filled formulation based on epoxy resins.

It is particularly suitable for food-processing industries. APSELIV GLASS can be applied in thicknesses up to 3 mm. APSELIV GLASS is recommended for environments subject to medium chemical aggression and severe mechanical stress.

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

The operating temperatures of APSELIV GLASS may vary from -20°C to +60°C.

CERTIFICATIONS

APSELIV GLASS complies with standard UNI EN 13813: screed materials (DoP No. 547). Quality management system certified ISO 9001 (Certificate No. IT.17.0227.01.QMS).

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



UBSTRATE PREPARATION

Surfaces must be flat, clean, free from dust, oil, grease, mud, friable parts, coatings and anything that may impair adhesion. Any cracks must be repaired with APSESTUK or AP 300 FIX putty.

If necessary, before applying APSELIV GLASS, warm the environment so that the substrate also reaches a temperature of 10°C. Before applying APSELIV GLASS, thoroughly vacuum all dust from the substrate.

Application of primer APSEPRIMER NS 125

Pour the entire component B into component A and mix thoroughly until a uniform colour is obtained. Load the product with QUARZO LIVEL (0.1–0.5 mm) in a weight ratio of 1 : 0.8.

Spread the mixture over the properly prepared substrate and trowel to zero with a smooth spatula, ensuring full surface coverage.

Immediately after applying the primer, it is recommended to broadcast the surface with QUARZO (0.1–0.5 mm) to improve adhesion of APSELIV GLASS.

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

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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 keeping slow agitation, add the required amount of QUARZO LIVEL (0.1–0.5 mm) filler and mix until a uniform compound is obtained.

APPLICATION METHOD

APSELIV GLASS can be used as a self-levelling coating and as a multi-layer coating, following the procedures described below.

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

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

2. Rivestimento multistrato (spessore 1-2 mm)

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

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

Joint filling and guideline filling:

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

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

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

CURING

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

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

Workability time (Pot-life)	35 minutes
Initial setting time	60 minutes
Dust-free	2-4 hours
Light foot traffic	24-48 hours
Full curing	7 days

WARNINGS

- Do not apply APSELIV GLASS on dusty or friable substrates;
- Do not apply APSELIV GLASS on substrates contaminated with oils, greases, etc.;
- Do not apply APSELIV GLASS on substrates not adequately prepared and not treated with suitable primer (APSEPRIMER NS 125, etc.);
- Do not expose the mixed product to heat sources;
- Do not apply APSELIV GLASS on damp substrates or those subject to capillary rising moisture;
- Do not dilute APSELIV GLASS with solvents or water, but only with alcohol;
- Do not apply APSELIV GLASS outdoors, as it may yellow.

TOOLS CLEANING I

Tools used for the preparation and application of APSELIV GLASS (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 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 if stored in original packaging, in a dry place free of moisture. Store at temperatures between +5°C and +30°C.

DISPOSAL

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

PRODUCT TECHNICAL DATA

PHYSICAL CHARACTERISTICS (at +20°C)

CHARACTERISTICS	STANDARD	RESULT	
		COMP. A	COMP. B
Appearance	-	Liquid	Liquid
Colour	-	Coloured	Transparent
Specific weight	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
Mixture consistency	-	Fluid
Specific weight of mixture (A+B)	EN ISO 2811-1	1.35 g/cm ³
Specific weight of filled mixture (A+B+QUARTZ)	EN ISO 2811-1	1.60 g/cm ³

PRODUCT PERFORMANCE IN ACORDING TO UNI EN 13813

CHARACTERISTICS	STANDARD	RESULT
Compressive strength	EN 13892-2	≥ 85 N/mm ²
Flexural strength	EN 13892-2	≥ 25 N/mm ²
TABER abrasion resistance after 7 days (Wheel H22, 1000 g, 1000 cycles)	EN ISO 5470-1	≤100 mg
BCA wear resistance	EN 13892-4	10 µm
Impact resistance	EN ISO 6272	20 N.m
Adhesion strength	EN 13892-8	>3.1 N/mm ²
SHORE D hardness	EN ISO 868	≥ 85
Reaction to fire	EN 13501-1	F _{fl}

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