

APSELIV 20

BICOMPONENT EPOXIDE COATING
FROM 0.3 TO 2 mm THICKNESS
FOR CIVIL AND INDUSTRIAL FLOORS



DESCRIPTION

APSELIV 20 is a two-component epoxy formulation suitable for resinous coatings of the self-levelling and/or multi-layer type and/or as a coating with a smooth or non-slip surface appearance, with thicknesses from 0.3 to 2 mm.

FIELDS OF APPLICATION

APSELIV 30 is used for floor coverings with the following applications:

- Coatings for the chemical and pharmaceutical industries;
- Coatings for the food industry;
- Coatings for laboratories, sterile rooms and hospitals;
- Coatings for aseptic rooms;
- Coatings for mechanised warehouses; Coatings for shopping centres.

PACKAGING

Coloured:

Comp. A = 20 kg in metal tin

Comp. B = 5 kg in metal tin

Converter (neutral):

Comp. A = 18 kg in metal tin

Comp. B = 5 kg in metal tin

CONSUMPTION

1. Self-levelling coating (2 mm thick)

Approx. 0.5 kg/m² primer depending on substrate

1.0 kg/m² quartz dusting

1.5 kg/m² APSELIV 20 (A+B)

1.0 kg/m² Quartz Livel (Charge)

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

2. Rough multi-layer coating

(1.5 mm thick)

0.3 kg/m² primer + 0.4 kg/m² filler

2.0 kg/m² fine quartz dusting

0.8 kg/m² APSELIV 20 (A+B)

3. Smooth multi-layer coating

0.3 kg/m² primer + 0.4 kg/m² filler

1.0 kg/m² fine quartz dusting

1.4 kg/m² APSELIV 20 (A+B+C)

4. Painting

0.45 kg/m² primer

0.30 kg/m² APSELIV 20 (A+B)

Two coats are recommended with light sanding between them.

MIXING RATIO

The mixing ratio by weight is:

Comp. A : B = 20 : 5

Loading ratio:

Binder (A+B) : inert = 13 : 5 (by weight)

CHARACTERISTICS AND ADVANTAGES

APSELIV 20 is a two-component, fillerised formulation based on epoxy resins. It is particularly suitable for the food industry. APSELIV 20 can be applied in thicknesses from 0.3 mm up to 2 mm. APSELIV20 is recommended for environments with medium chemical aggression and severe mechanical stress. Due to its aesthetically pleasing appearance, APSELIV 20 can also be used as a civil or decorative flooring with the addition of chips. The operating temperatures of APSELIV 20 can vary from -20°C to +60°C.

CERTIFICATIONS

APSELIV 20 complies with standard UNI EN 13813: materials for screeds (DoP n° 422).

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

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



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SUBSTRATE PREPARATION

Surfaces must be flat, clean, free of dust, oil, grease, mud, crumbling parts, paintwork and anything that may impair adhesion. Any cracks must be repaired with APSESTUK or AP 300 FIX filler.

If necessary, heat the room before applying APSELIV 20 so that the substrate also reaches a temperature of 10°C. Before applying APSELIV 20, thoroughly vacuum the dust on the substrate.

Application of the primer APSEPRIMER NS 125
Pour all component B into component A and mix thoroughly until a uniform colour is obtained.
Load the product with QUARTZ LEVEL (0.1-0.3 mm) in the weight ratio 1 :0.8.

Spread the mixture obtained on the surface of the suitably prepared substrate and smooth with a smooth trowel, making sure that the surface is perfectly covered.

Immediately after primer application, it is recommended to dust the surface with fine quartz (0.1-0.3 mm) to improve the adhesion of APSELIV 20.

When the APSEPRIMER NS 125 primer has hardened, proceed with the application of APSELIV 20.

PRODUCT PREPARATION

Mix the individual components separately. Pour component B (hardener) into component A (coloured resin) and mix for a few minutes with a drill at low speed until a lump-free and homogeneously coloured mixture is obtained. Still stirring slowly, add the required amount of QUARZO LEVEL aggregate (0.01-0.1 mm) and mix until a homogeneous mixture is obtained.

In the case of painting, apply without adding aggregates.

METHOD OF APPLICATION

APSELIV 20 can be applied with roller, steel trowel or airless spray.

It can be used as a self-levelling and multi-layer coating.

1. Self-levelling coating (2 mm thick)

- It is recommended that the mix be spread and levelled out with a bubble roller in criss-cross passes to allow air to escape.

- It may be necessary to mark off the areas where APSELIV 20 is applied with paper tape or self-adhesive strips of suitable thickness.

2. Multilayer coating (1-2 mm thick)

- When the primer has hardened, apply the layer of APSELIV 20 with a smooth American trowel;
- Seed with QUARZOLIVEL according to the thickness to be achieved;
- Remove excess quartz that is not anchored;
- Apply the finishing layer of APSELIV 20 with a smooth American trowel;
- If necessary, seed again and apply a further layer of APSELIV 20 finish and mix with QUARZO LEVEL, until the desired thickness is obtained.

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

CURING TIME

The curing time of a layer of APSELIV 20 is influenced by the ambient temperature. Refer to the table below for drying and curing times (at 20°C).

Pot-life	35 minutes
Setting time	60 minutes
Dust off	2-4 hours
Walkability	24-36 hours
Heavy carriageability	5-7 days
Complete hardening	7 days

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WARNINGS

- 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 probability of white bloom;
- Do not apply APSELIV 20 on dusty or crumbling substrates;
- Do not apply APSELIV 20 on substrates soiled by oils, grease, etc.;
- Do not apply APSELIV 20 on substrates not properly prepared and not treated with suitable primer (APSEPRIMER NS 125 etc.);
- Do not expose the mixed product to heat sources;
- Do not apply APSELIV 20 on damp substrates or subject to capillary rising damp;
- Do not dilute APSELIV 20 with solvents or water, but with alcohol;
- Do not apply APSELIV 20 outdoors, as it may yellow.

CLEANING OF TOOLS

The tools used for the preparation and application of APSELIV 20 (A+B) must be cleaned immediately after use with the epoxy solvent DILUEPOX or denatured alcohol; after hardening of the product, removal can only be carried out mechanically.

HEALTH AND SAFETY

For information on safety regulations, hazard statements and precautionary advice, please refer to the latest safety data sheet, by requesting it at: ufficiotecnico@apsebg.it

STORAGE

Shelf life more than 12 months if stored in original packaging, in a dry place and free of moisture. Store at temperatures between +5°C and +30°C. Heat plastic containers in a bain-marie if frost or crystals form.

DISPOSAL

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



DATI TECNICI DEL PRODOTTO

PHYSICAL CHARACTERISTICS (at +20°C)

FEATURE	STANDARD	RESULT	
		COMP. A	COMP. B
Appearance	-	Pastoso	Liquido
Colour	-	Colorato	Trasparente
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)

FEATURE	STANDARD	RESULT
Colour	-	Coloured to RAL scale
Mixture consistency	-	Fluid
Specific weight of mixture (A+B)	EN ISO 2811-1	1,35 g/cm ³
Specific weight of loaded mixture (A+B+QUARTZ)	EN ISO 2811-1	1,60 g/cm ³

PRODUCT PERFORMANCE ACCORDING TO UNI EN 13813

FEATURE	STANDARD	RESULT
TABER abrasion resistance after 7 days	EN ISO 5470-1	60 mg
(Grinding wheel H22, 1000g, 1000 rpm)	EN 13892-4	10 µm
BCA wear resistance	EN ISO 6272	20 N.m
Impact resistance	EN 13892-8	>3,1 N/mm ²
Grip strength	EN 13501-1	F _{fl}

The data given above are information obtained from our best technical knowledge, application, and research experience.

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