

APSEFLOOR 145

TWO-COMPONENT EPOXY BINDER FOR SCREED FLOORING



DESCRIPTION

APSEFLOOR 145 is a two-component (A+B) fluid, colorless, solvent-free epoxy formulation. The components are supplied pre-measured.

FIELDS OF APPLICATION

It is suitable for creating trowelable mortars for the repair and surface restoration of degraded and corroded industrial floors. APSEFLOOR 145, when properly filled, is used in the industrial sector for the following applications:

- For leveling uneven surface;
- For the repair and surface restoration of degraded and corroded floors;
- For volumetric filling of holes and cracks;
- For creating slopes;
- For wear-resistant coatings;
- In general, it is applied in all situations requiring rapid maintenance intervention, such as ramps, docks, industrial warehouses, storage facilities, chemical plants, food industries, etc..

ADVANTAGES

- Excellent resistance to water, diluted bases, oils, and hydrocarbons;
- Good resistance to diluted acids and solvents;
- Shrinkage-free applications;
- High chemical-mechanical properties;
- Excellent adhesion to traditional construction materials;
- High resistance to heavy traffic;
- Reduced initial curing time;
- Minimal interference with normal factory operations;
- Excellent workability;
- High resistance to indentation;
- Levelled surfaces with even inclined transitions.

PACKAGING

The product is available in the following packages:
 Component A: 10 kg in metal can
 Component B: 4.5 kg in metal can

Available in 200 kg drums and 1000 kg tanks.

CONSUMPTION

Primer (A+B)

0.30–0.40 kg/m²

Quartz-filled reconstruction mortar

Approx. 20 kg/m² per centimeter of thickness.

MIXING RATIO

The mixing ratio by weight is:

Primer

Comp. A : B = 100 : 45 kg

Quartz-filled reconstruction mortar

Comp. A : B : Resinvarz = 100 : 45 : 1350 kg

CERTIFICATIONS

APSEFLOOR 150 complies with the standard UNI EN 13813: Screed materials (DoP n° 439). Quality management system certified ISO 9001 (Certificate No. IT.17.0227.01.QMS). APSE S.r.l. is an active member of CONPAVIPER.



SURFACE PREPARATION

Surfaces must be clean, free of dust, oil, grease, loose particles, paint residues, or anything that could affect adhesion. Any metal substrates in the affected areas must be free from rust, mill scale, and other impurities. For this purpose, we recommend thorough brushing and application of a suitable primer.

PRODUCT PREPARATION

Pour component B (hardener) into component A (resin) and mix with a low-speed drill to avoid air entrapment. Gradually add the aggregate (see our Resinvarz) under stirring until a homogeneous, lump-free product is obtained.

**APPLICATION METHOD**

APSEFLOOR 145 can be used as a primer and as a binder for reconstruction mortars.

1. Primer (A+B)

Apply APSEFLOOR 145 mixed only A+B evenly over the surface to be reconstructed using a medium-pile roller.

2. Binder for reconstruction mortar (A+B+aggregate)

Mix A+B and add the aggregate in the specified quantities and according to the recommended procedure.

- Before the primer has cured, apply the reconstruction mortar to the required thickness, consisting of APSEFLOOR 145 (A+B) and aggregates;
- Work and smooth the mortar using a power trowel with fine blades and finish with smooth spatles;
- After curing, saturate the surface with APSEFLOOR 145 (A+B) and apply the specific finishing coat, for example: EPOX AC, APSELIV 30, VERNILUX POL (see technical data sheets).

Apply the product at temperatures between +10°C and +30°C.

CURING

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

Pot life of mixture (A+B)	35 minutes
Pot life of mortar (A+B+Resinuarz)	35-40 minutes
Setting start time	60 minutes
Dust-free	6 hours
Initial hardening time of mortar (A+B+C)	12-15 hours
Walkability	24 hours
Full curing time	7 days

CLEANING OF TOOLS

The equipment used for the preparation and application of APSEFLOOR 145 must be cleaned immediately after use with DILUEPOX. After the product has hardened, removal can only be carried out mechanically.

WARNINGS

- Do not apply on wet or dusty substrates;
- Do not apply if the adhesion primer has hardened.

HEALTH & 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 12 months if stored in the original packaging, in a cool and dry place. Store at temperatures between +5°C and +30°C. Protect from frost.

DISPOSAL

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



TECHNICAL DATA

PHYSICAL CHARACTERISTICS (at +20°C)

CHARACTERISTIC	STANDARD	RESULTS	
		COMP. A	COMP. B
Appearance	-	Fluid	Fluid
Color	-	Transparent	Transparent
Specific weight	EN ISO 2811-1	1,12 g/cm ³	0,99 g/cm ³
Viscosity	EN 8490	900 cps	350 cps

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

CHARACTERISTIC	STANDARD	RESULTS
Colore	-	Transparent
Mixture consistency	-	Liquid
Specific weight	EN ISO 2811-1	1,05 g/cm ³

PRODUCT PERFORMANCE ACCORDING TO EN 13813

CHARACTERISTIC	STANDARD	RESULTS
Abrasion resistance BCA	EN 13892-4	10 µm
Adhesive strength (with primer)	EN 13892-8	3.1 N/mm ²
Impact resistance	EN ISO 6272	20 N.m
Compressive strength (28 days)	EN 13892-2	≥ 55 N/mm ²
Flexural strength (28 days)	EN 13892-2	≥ 25 N/mm ²

PRODUCT PERFORMANCE IN SERVICE

CHARACTERISTIC	STANDARD	RESULTS
Tensile strength	ASTM D 638	30 N/mm ²
Abrasion resistance (Taber Abraser, 1,000 cycles / 1,000 g, CS 17 wheel), expressed as weight loss:	EN ISO 5470-1	80 mg
Surface hardness (shore D)	EN ISO 868	80

The data reported above is information obtained based on our best technical and application knowledge and research experience. However, as we cannot directly intervene on the conditions of the construction sites and the execution of the works, they represent indications of a general nature which do not bind APSE S.r.l. in any way. - V&V Group. The information provided does not exempt the buyer from his responsibility to personally test our products for their suitability for the intended use. The customer is also required to verify that this technical data sheet is valid for the product batch of his interest and is not outdated as it has been replaced by subsequent editions. If in doubt, contact our Technical Office in advance. APSE S.r.l. - V&V Group reserves the right to make technical changes of any kind without notice. This revision cancels and replaces any previous one, all under the continuous verification of the data in accordance with the new regulations in force and our ISO 9001 management system. Please check the most updated version of this Technical Data Sheet on our website: www.apse.it

