



DESCRIPTION

APSECRETE is a two-component formulation based on epoxy resins in emulsion to make self-levelling, breathable mortars on industrial floors without vapor barriers, even wet ones, with semi-gloss finishes. APSECRETE has good chemical, mechanical and abrasion resistance and allows the execution of both self-levelling and multi-layer systems.

FIELDS OF USE

It is used for floor coatings with a minimum thickness of about 1.5 mm up to 3 mm. It can be intended for flooring with the following applications:

- Coatings for garages and garages;
- Coatings for the food industry;
- Coatings for chemical and pharmaceutical industries;
- Coatings for mechanized warehouses;
- Coatings for shopping malls;
- Coatings for mechanical industries;
- Coatings for laboratories.

PACKAGING

Comp. A = 21 kg in plastic bucket.
Comp. B = 3 kg in plastic bucket.

CONSUMPTION

1. Self-levelling smooth coating
 - 4 kg/m² (2 mm thick).
 - 6 kg/m² (3 mm thick).
2. Multilayer coating (2 mm thick).
 - 0.9 kg/m² middle layer.
 - 0.6 kg/m² top coat.

MIXING RATIO

Comp. A : B = 7 : 1

CHARACTERISTICS AND BENEFITS

APSECRETE is an epoxy formulation that, thanks to its special features, makes it possible to make self-levelling mortars on damp substrates without a vapor barrier.

Curing is by reaction and cold curing without shrinkage presenting a compact, homogeneous and resistant surface.

Although the product has good chemical resistance, in some cases, it may be subject to color variations that do not change its general characteristics.

CERTIFICATIONS

APSECRETE complies with UNI EN 13813: materials for screeds (DoP No. 453).

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

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



SUBSTRATE PREPARATION

Surfaces must be clean, free of dust, oil, grease, mud, friable parts, paint, and in any case of anything that could harm adhesion. Any metal substrates in the affected areas must be free of rust, rolling slag and other impurities. To this end, we recommend intervening with vigorous brushing at ST3 grade or with the appropriate rust converter FERROCONVERT.



PRODUCT PREPARATION.

The two parts of which APSECRETE is composed must be mixed together. Pour component B into component A and mix with a drill at low speed to avoid air inglobes until a lump-free and homogeneously colored mixture is obtained. The product should be applied at temperatures between +8°C and +30°C.

METHODS OF APPLICATION

APSECRETE can be used as a self-levelling coating (1.5 to 3 mm). The procedures are as follows:

1. Self-levelling smooth coating (thickness 1.5 to 3 mm)

- Properly prepare the substrate by shot peening and subsequent dust extraction;
- Pour APSECRETE on the floor and distribute it evenly and homogeneously with notched trowel;
- Pass the bubble breaker roller crosswise over the fresh material to even out the thickness and promote the escape of air from the product.

2. Multilayer coating (thickness 1-3 mm)

- Properly prepare the substrate by shot peening and subsequent dust extraction;
- Apply the finishing layer of APSECRETE with a smooth American trowel by shaving to zero;
- Seed to refusal with suitable quartz depending on the thickness to be achieved;
- Remove excess quartz that is not anchored. Apply the new finishing coat of APSECRETE with smooth American trowel shaving to zero;
- If necessary seed again to refusal and apply an additional layer of APSECRETE finish until the desired thickness is achieved.

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

CURING

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

Workability time (Pot-life)	35 min
Time to start setting	60 min
Out of dust	30 min
Walkability	24-36 hours
Complete curing	7 days

WARNINGS

- Do not dilute with solvents or water;
- Do not apply outdoors;
- Do not apply to dusty or friable substrates;
- Do not apply to substrates polluted with oil, grease or dirt in general;
- Do not mix partial quantities of the components in order to avoid making mistakes in mixing ratios that would cause the product not to harden properly;
- Do not expose the mixed product to heat sources.

CLEANING OF TOOLS

Equipment used for the preparation and application of APSECRETE should be cleaned immediately after use with water; after the product has cured, removal may be done only mechanically.

HEALTH AND SAFETY.

For information on safety regulations, hazard statements and precautionary advice, please rely on the latest MSDS by making a request to:

ufficiotecnico@apsebg.it

STORAGE

Shelf life of more than 12 months when stored in original packaging in a dry, moisture-free place. 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)

FEATURE	STANDARD	RESULT	
		COMP. A	COMP. B
Appearance	-	Liquid	Liquid
Color	-	Neutral	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)

FEATURE	STANDARD	RESULT
Color	-	Colored to RAL scale
Mixture consistency	-	Dense fluid
Specific gravity mixture	EN ISO 2811-1	1,34 g/cm ³

PRODUCT PERFORMANCE ACCORDING TO UNI EN 13813 STANDARD

FEATURE	STANDARD	RESULT
Compressive strength	EN 13892-2	≥ 40,0 N/mm ²
Flexural strength	EN 13892-2	≥ 8,8 N/mm ²
Adhesion strength	EN 13892-8	≥ 8,8 N/mm ²
TABER abrasion resistance after 7 days	EN ISO 5470-1	60 mg
(H22 grinding wheel, 1000g, 1000 rpm)	EN 13892-4	≤ 50 µm

PRODUCT PERFORMANCE IN OPERATION

FEATURE	STANDARD	RESULT
SHORE D hardness	EN ISO 868	≥ 80
Water vapor transmission	EN 12086	µ < 2800 (3,0mm)
Capillary absorption and water permeability	EN 1062-3	W < 0,1 g/m ² x h ^{0,5}
Chemical resistances	EN 13529	Sulfuric acid 20% Class I Sodium hydroxide 20% Class II
Reaction to fire	EN 13501-1	F _{fl}

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