

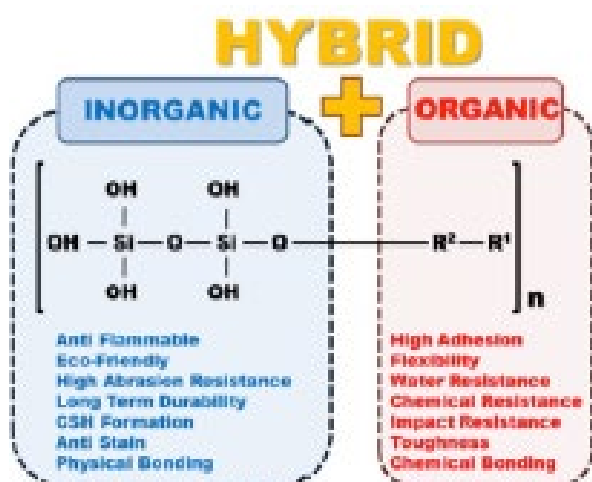
# HYBRID n-COAT®

ENVIRONMENTALLY FRIENDLY  
HYBRID RESIN  
WITH SUPERIOR QUALITIES



## DESCRIPTION

HYBRID n - COAT® is a hybrid coating consisting of inorganic components, as the main component, and organic sub-components, as the molecular reaction unit. It has both inorganic properties, such as fire resistance, high hardness, abrasion resistance and acid resistance, and organic properties, such as water resistance, alkali resistance, flexibility, strength and impact resistance. In addition, it is an eco-friendly product that contains little hazardous organic solvent, as it is present in limited quantities.



## FIELDS OF USE

HYBRID n - COAT® is used as a floor coating in:

- Manufacturing plants, garages and warehouses;
- Restaurants, shopping malls, supermarkets, apartments, offices and stores;
- Hospital facilities, RSAs, childcare facilities;
- Parking lots, runways, stairways and emergency exits.
- For making sign strips on concrete floors.

## PACKAGING

### Transparent glossy version:

A+B=14+4 kg or A+B=3.5+1 kg

### Transparent matte version:

A+B=14.8+4 kg or A+B=3.7+1 kg

### Colored version (matte):

A+B=25+4 kg or A+B=6.25+1 kg

### Colored version (glossy):

A+B=24+4 kg or A+B=6+1 kg

## THEORETICAL CONSUMPTION

0.125 kg/m<sup>2</sup> per coat, 2 coats recommended.

## MIXING RATIO

### Transparent glossy version:

A+B=14+4 kg or A+B=3.5+1 kg

### Transparent matte version:

A+B=14.8+4 kg or A+B=3.7+1 kg

### Opaque colored version:

A+B=25+4 kg or A+B=6.25+1 kg

### Satin colored version:

A+B=24+4 kg or A+B=6+1 kg

### Anti-slip mixture:

(Base & hardener) : Aggregates = 100 : 5

## FEATURES AND BENEFITS

- Antibacterial;
- Environmentally friendly certificate (EcoLabel) ;
- Surface hardness and abrasion resistance 3 ~ 5 times stronger than epoxy resin;
- Superior adhesion to cementitious and concrete substrates through penetration bond structure;
- Superior stain-resistant properties;
- High chemical/acid resistance;
- Fast drying and reaction time: reduces project downtime.

## CERTIFICATIONS

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

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

Korea Eco-label Certification.

Complies with the dictates of APAS Australian Paint Approval Scheme.



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## SUBSTRATE PREPARATION

The substrates to be coated must be sound, dry, and free of detaching parts, dust, dirt, grease, oil and any other material that may affect the adhesion of the product to the substrate.

## PRODUCT PREPARATION.

Slowly pour Comp. B (hardener) into Comp. A (resin base). Mix with hand mixer at low speed, for at least 3 min.

If necessary, dilute with Ethylene glycol-monopropyl ether.

## METHOD OF APPLICATION.

After cleaning the substrate, apply a layer of HYBRID n - COAT® mixture preferably with a roller (you will have prepared the right amount of mixture for this step). After the first coat has penetrated the substrate, small cracks and holes will appear: now perform the grouting to seal, by means of a rubber squeegee. The grouting step can be avoided depending on the condition of the substrate. An epoxy putty can also be used.

After the putty has dried, sanding is recommended. Mix a new appropriate amount of HYBRID n - COAT® and proceed with the application of the second layer (colored or transparent), again by roller.

Apply the third transparent protective layer by roller or spray gun.

The recommended final thickness is 100-300 µm, depending on the condition of the substrate.

The interval between passes is about 4 hours at 20°C. If it is exceeded, light sanding and thorough cleaning of the surface with alcohol is recommended to ensure perfect adhesion of subsequent coats.

Apply the product at temperatures between +5°C and +35°C and relative humidity not exceeding 85 percent. Failure to comply with these parameters may result in reduced gloss effect, delayed drying, surface defects, etc.

## CURING

Refer to the table below for drying times (at 20°C) and curing times.

Workability time (Pot-life)	60 minutes
Waiting time between coats	4-12 hours
Drying time	12 hours
Walkable with caution	24 hours
Complete curing	72 hours

## WARNINGS

The product if applied outdoors and to direct sun exposure may yellow and lose performance. Do not use if the container is damaged.

The application of abundant coats is not recommended, as they may cause drying delays and, except in the transparent version, possible color shading. Instead, multiple coats are recommended with consumption not exceeding 100/150 g/m<sup>2</sup>.

It is recommended to strictly follow the instructions given in this technical data sheet, otherwise the perfect success of the coating is not guaranteed, as drying delays, efflorescence or loss of gloss may occur.

## HEALTH AND SAFETY WARNINGS

For information on safety regulations, hazard statements and cautionary advice, rely on the latest MSDS by making a request to:  
ufficiotecnico@apsebg.it

## STORAGE

Shelf life of 12 months when stored in original packaging in a dry, moisture-free place. Store at temperatures between +5°C and +35°C.

## DISPOSAL

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


**PRODUCT TECHNICAL DATA**
**PHYSICAL CHARACTERISTICS OF THE TWO COMPONENTS (at +20°C)**

FEATURE	NORMATIVE	RESULT	
		COMP. A	COMP. B
Appearance	-	Liquid	Liquid
Color	-	Colored	Transparent
Specific gravity	EN ISO 2811-1	1,00±0,02 g/cm³	1,02±0,01 g/cm³

**CARATTERISTICHE FISICHE DELLA MISCELA (a +20°C)**

FEATURE	NORMATIVE	RESULT
Color	-	Colored
Consistency of the mixture	-	Fluid
Specific gravity	EN ISO 2811-1	1,33 g/cm³
Viscosity	EN 8490	600 cps

**PRODUCT PERFORMANCE IN OPERATION**

FEATURE	NORMATIVE	RESULT
Koenig hardness	EN ISO 1522	80
Buchholz hardness	EN ISO 2815	105
Taber abrasion resistance	EN ISO 5470-1	25 mg

APSE S.r.l. is the exclusive reseller of the hybrid and eco-friendly coating



The data given above are information obtained from our best technical knowledge, application, and research experience. However, since we are unable to intervene directly in site conditions and work execution, they represent general indications that do not bind APSE S.r.l. - V&V Group. The information given does not relieve the purchaser of his responsibility to personally test our products as to their suitability with regard to their intended use. The customer is also responsible for verifying that this data sheet is valid for the batch of product of interest to him and is not outdated as superseded by later editions. If in doubt, contact our Technical Department in advance. APSE S.r.l. - V&V Group reserves the right to make technical changes of any kind without prior notice. This revision cancels and supersedes all previous ones, all under the continuous verification of data according to the new current Standards and our ISO 9001 management system. Please be sure to check the most up-to-date version of this Data Sheet on our website: [www.apse.it](http://www.apse.it)

