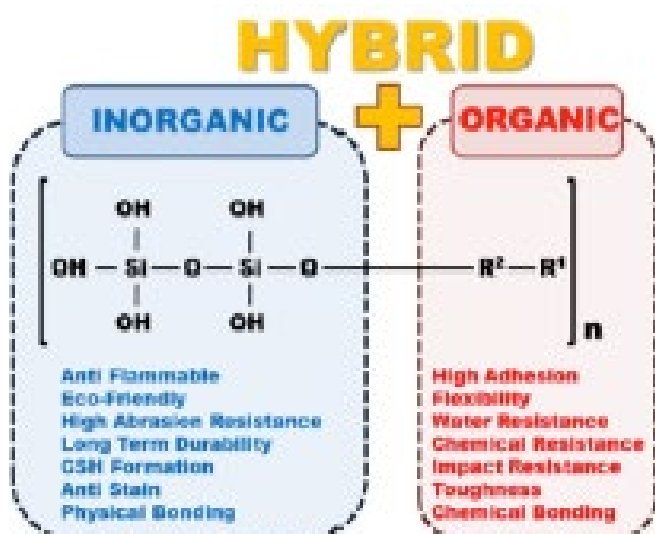




## DESCRIPTION

HYBRID n - COAT<sup>®</sup> FR 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<sup>®</sup> FR is used as a finish for flooring and coatings in the naval sector, such as:

- Parking lots, runways, stairways and emergency exits;
- Restaurants, shopping malls, supermarkets, apartments, offices and stores;
- Infirmaries, kitchens and technical rooms;
- For making sign strips on concrete floors.

## PACKAGING

Comp. A = 25 kg tins

Comp. B = 4 kg tins

## CONSUMPTION

0,25-0,3 kg/m<sup>2</sup> to be applied in two coats.

## MIXING RATIO

Comp. A : Comp. B = 19 : 3

## 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

HYBRID n - COAT<sup>®</sup> FR complies with the fire protection requirements of Directive 2014/90/EU and Implementing Regulation (EU) 2024/1975 (Certificate number: MED/0497/1807 notified body no. 0498). 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.



## 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.

Before carrying out the treatment, it is always necessary to sand the surface thoroughly, followed by vacuuming the dust produced using an industrial vacuum cleaner in order to ensure adhesion to the substrate.

## PRIMER APPLICATION

Apply one coat of APSEPRIMER NS 125 FR primer (refer to the corresponding technical data sheet) and then proceed with the application of VERNILUX POL FR.


**PRODUCT PREPARATION**

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

**METHOD OF APPLICATION**

The mixed product can be applied using a short-pile roller. Apply two coats of the product, crossing the strokes and taking care not to exceed the recommended consumption.

**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.

**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](mailto: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	STANDARD	RESULT	
		COMP. A	COMP. B
Appearance	-	Liquid	Liquid
Color	-	Colored	Transparent
Specific gravity	EN ISO 2811-1	1,00±0,02 g/cm <sup>3</sup>	1,02±0,01 g/cm <sup>3</sup>

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

FEATURE	STANDARD	RESULT
Color	-	Colored
Consistency of the mixture	-	Fluid
Specific gravity	EN ISO 2811-1	1,33 g/cm <sup>3</sup>
Viscosity	EN 8490	600 cps

**PRODUCT PERFORMANCE IN OPERATION**

FEATURE	STANDARD	RESULT
Koenig hardness	EN ISO 1522	80
Buchholz hardness	EN ISO 2815	105

**PRODUCT PERFORMANCE**

FEATURE	STANDARD	RESULT
Taber abrasion resistance (CS 10 wheel, 1000 rpm, 1000g)	EN ISO 5470-1	25 mg
Capillary absorption and water permeability	EN 1062-3	W<0,1 kg/m <sup>2</sup> .h <sup>0,5</sup>
Impact resistance	EN 6272-1	Class III
Direct tensile adhesion strength	EN 1542	≥ 2,0 N/mm <sup>2</sup>

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)

