cement

APSE®
floor products since 1964

N. 208 - REV. 03/2025

APSECOR N

HIGH WEAR RESISTANCE
HARDENER BASED ON CORUNDUM

DESCRIPTION

APSECOR N is a high mechanical resistance aggregate for monolithic floors, used in industries and warehouses with high traffic, airports, hangars, logistics, ceramic production, ports, intensive warehouses, etc.
APSECOR N is composed of a mixture of mineral aggregates and synthetic abrasives (corundum). Ready to use, already premixed with cement, it is produced in 7 different colors.
Special colors are available on request.

APSECOR N can be applied either as a sprinkle or as a paste.

FIELDS OF USE

The main fields of use are:
- New flooring under construction;
- Commercial and industrial;
- Logistics warehouses;
- Depots, couriers, freight forwarders;
- Interports, storage areas;
- Loading platforms;
- Airport and maritime hangars;
- Garages, parking lots;
- Access ramps to garages or parking lots;
- Automotive industries, etc.;
- Ceramic industries;
- Ports.

PACKAGING

25 kg polythene-coated paper bags.

CONSUMPTION

Consumption with manual application:
First coat: from 2 kg to 3.5 kg/m²
Second coat: from 1.5 kg to 2 kg/m²

Consumption with mechanical application with spreader (immediate telescopic sprinkle machine): up to 8-12 kg/m².

FEATURES AND ADVANTAGES

- Increases the mechanical resistance of the surface to abrasion;
- Pleasant aesthetic effect;
- Adheres monolithically to the surface;
- Resistant to impact;
- Resistant to slipping and scraping;
- Can be coated with METALCRIL or VERNILUX and does not generate oxidation;
- The finish can be smooth or non-slip;
- When treated with METALCRIL, it provides excellent resistance to atmospheric agents, freezing and thawing, and de-icing salts, and makes it water-repellent;
- Meets the requirements defined in the UNI EN 13813 standard;
- The product complies with regulations regarding fire reaction classes.

CERTIFICATIONS

APSECOR N complies with the UNI EN 13813 standard: materials for screeds (DoP no. 208).
ISO 9001 certified quality management system (Certificate No. IT.17.0227.01.QMS).
APSE S.r.l. is an active member of CONPAVIPER.

ISO 9001 certiW CERTIFIED

CE EN 13813

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DRY APPLICATION

Concrete quality
The concrete mix must be formulated with a suitable aggregate to achieve the desired result.
The air content/entrapped air in the concrete must be less than 3%.
APSECOR N sprinkle must be applied to the concrete as soon as it can support the weight of a man (perform the footprint test), normally after 4–12 hours depending on the temperature and weather conditions.

Surface preparation
Large areas of concrete should be cast using a laser screed.
For smaller areas, a suitable surface can be created by first preparing the level planes and then leveling them with aluminum strips.

Product preparation
The product is ready to use for sprinkle application.

Sprinkle application method
For best results, two coats of sprinkle should be applied in the manual system. When using a mechanical applicator (sprinkle brush), one coat may be sufficient.
In the manual system, the first coat of APSECOR N sprinkle should be applied evenly over the surface with a consumption of 2 kg to 3.5 kg/m², while the second coat should be applied with a consumption of 1.5 kg to 2 kg/m².
When applying mechanically with a spreader (telescopic sprinkle tool), consumption can reach 8-12 kg/m².
Once APSECOR N sprinkle powder has absorbed all the moisture, the surface must be smoothed using a manual spatula for corners and edges, while the main surface will be smoothed mechanically with a vibrocompactor machine (helicopter).

PASTE APPLICATION

Surface preparation
Large areas of concrete should be poured using a laser screed.
For smaller areas, a suitable surface can be created by first preparing the level planes and levelling them with aluminium rulers.
Before applying the paste, pass the surface of the casting with the helicopter and only then apply the APSECOR N paste in the required quantity.

Preparation of the paste
Add the necessary mixing water to the mixer (cup mixer) to obtain a dense and homogeneous mixture (13-14% water by weight of the mixture) and only at the end add the missing part to soften the mixture.
In the case of pumping, use several meters of hose to allow the additives to act. Once the right consistency has been achieved, work the paste with helicopters until the desired smoothness is obtained.

Paste application method
When APSECOR N has reached the right consistency (walkability), the surface must be smoothed using a manual trowel for corners and edges, while the main surface will be smoothed mechanically with a vibrating compactor (helicopter).
To obtain a hard and smooth surface, use a helicopter with finishing blades. To obtain a good smooth finish on light colors, use Teflon blades.

APPLICATION OF APSERING AQ (anti-evaporation agent)

- APSERING AQ must be applied immediately after finishing
- APSERING AQ is applied with a low-pressure spray evenly over the entire surface with a consumption of 100 g/m².

CURING

It is essential to adhere to the curing times before the floor is put into service.
For curing times (at +20°C), refer to the table below:

Pot life	35 min
Initial setting	60 min
Pedestrian traffic	24-36 hours
Light traffic	14 days
Full curing	28 days

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CLEANING OF TOOLS
Clean with water while the product is still fresh.
Mechanically after hardening.

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

WARNINGS
Do not use if the bag is damaged.
Do not add additives unless specified by the manufacturer.
Do not add water once the product has started to set.

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

HEALTH AND SAFETY WARNINGS
For information on safety regulations, hazard warnings, and safety precautions, refer to the most recent safety data sheet, which can be requested at: ufficiotecnico@apsebg.it

PRODUCT TECHNICAL DATA

PHYSICAL PROPERTIES (at +20°C)

FEATURE	STANDARD	RESULT
Appearance	-	Powder and granules
Color	-	gray, red, green, tobacco, yellow-Gb42
Application temperature	-	From +5 to +35°C
Density of mixture	EN 1015-6	1.8 ± 0.5 g/cm3

PRODUCT PERFORMANCE IN ACCORDANCE WITH UNI EN 13813

FEATURE	STANDARD	RESULT
Compressive strength	EN 13892-2	≥ 75 N/mm^2
Flexural strength	EN 13892-2	≥ 10 N/mm^2
Bohme abrasion resistance	EN 13892-3	≤ 3 cm^3/cm^2
Reaction to fire	EN 13501-1	A1$_{fl}$

CHEMICAL PROPERTIES

Quartz color (natural)	White - yellow
Origin	sedimentary metamorphic
Grain size (mm)	0,50 - 0,70 - 1 - 2 - 3
Loss on ignition (LOI)	0,2%
Mohs hardness scale	7° - 9